

Diamond Alkali Co.

NJD980528996

8.1.2

Passaic Valley Sewerage Commissioners

**Passaic Valley Sewerage Commissioners
Response to Request for Information
USEPA, Region 2**

**Item No. 9
PVSC Monitoring Report/1993**

Document order #28

MONITORING REPORT - TRANSMITTAL SHEET

NJPDES NO.

REPORTING PERIOD

MO. YR.

MO. YR.

0021016

0193 THRU 0193

PERMITTEE:

Name Passaic Valley Sewerage Commissioners

Address 600 Wilson Avenue

Newark, New Jersey 07105

FACILITY:

Name Passaic Valley Sewerage Commissioners

Address 600 Wilson Avenue

Newark, N.J. 07105

(County) Essex

Telephone (201) 344-1800

* For reporting period 1/93
** For reporting period 12/92

FORMS ATTACHED (Indicate Quantity of Each)

SLUDGE REPORTS - SANITARY

☒ 1 T-VWX-007 ☒ 1 T-VWX-008 ☒ 1 T-VWX-009
* ** *

SLUDGE REPORTS - INDUSTRIAL

☐ T-VWX-010A ☐ T-VWX-010B

WASTEWATER REPORTS

☐ T-VWX-011 ☐ T-VWX-012 ☐ T-VWX-013

GROUNDWATER REPORTS

☐ VWX-015(A,B) ☐ VWX-016 ☐ VWX-017

NPDES DISCHARGE MONITORING REPORT

☐ EPA FORM 3320-1

OPERATING EXCEPTIONS

	YES	NO
DYE TESTING	<input type="checkbox"/>	<input type="checkbox"/>
TEMPORARY BYPASSING	<input type="checkbox"/>	<input type="checkbox"/>
DISINFECTION INTERRUPTION	<input type="checkbox"/>	<input type="checkbox"/>
MONITORING MALFUNCTIONS	<input type="checkbox"/>	<input type="checkbox"/>
UNITS OUT OF OPERATION	<input type="checkbox"/>	<input type="checkbox"/>
OTHER	<input type="checkbox"/>	<input type="checkbox"/>

(Detail any "Yes" on reverse side in appropriate space.)

NOTE: The "Hours Attended at Plant" on the reverse of this sheet must also be completed.

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR

Name (Printed) Phil Habrukowich

Grade & Registry No. NJ S-4 #3972

Signature 

Date 2/24/93

**PRINCIPAL EXECUTIVE OFFICER or
DULY AUTHORIZED REPRESENTATIVE**

Name (Printed) Carmine T. Perrapato

Title (Printed) Executive Director

Signature 

te 3/25/93

946430002

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

946430003

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

Mo. 0 1

Yr. 1 9 9 3

5 1

Page 2 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	2 2 5 8

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	4 5 0
2. Average Daily Sludge Production	(Gallons/Day)	B2:	3 9 1 9 3
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	7 3 5 4

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE

1. Complete ONLY If Liquid Sludge Is Removed			
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day)	C2:	
2. Complete ONLY If Dewatered Sludge Is Removed			
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	4 5 0
b. Complete ONE of the following:			
i. Average Daily Sludge Removal	(Gallons/Day)	C4:	
Total Solids of 2.b.i.	(% by weight)	C5:	
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	1 6 3 3
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	7 3 5 4
4. pH of Sludge Removed	(Standard Units)	C9:	1 0 9

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
D	P A S S A I C V A L L E Y	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist
Title
SignatureFEB 25, 1993
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

9464300C4

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion; or

B. Aerobic Digestion; complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

b. After Stabilization (as weight % of TS)

c. Percent Reduction (see equation)

2. Detention Time (Days)

3. Average Temperature (Degrees C)

UNIT 1

UNIT 2

UNIT 3

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C. Air Drying (Report on any beds emptied for the report period)

BED

DATE SLUDGE LOADED

DEPTH POURED

DATE SLUDGE REMOVED

Month Day Year

Inches

Month Day Year

1. | | | | | | | |

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2. | | | | | | | |

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3. | | | | | | | |

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D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

$$A. \text{ Dry Tons} = \frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$$

$$B. \text{ Dry Tons} = \frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$$

$$y = 1.185 \text{ where solid content is less than 15\%}$$

$$= 1.265 \text{ where solid content is 16\% to 23\%}$$

$$= 1.58 \text{ where solid content is 24\% to 29\%}$$

$$= 1.9 \text{ where solid content is greater than 30\%}$$

$$C. \text{ Dry Tons} = \text{Tons (wet)} \times \text{Solid Content (of the wet tons)}$$

$$D. \text{ Volatile Solids Reduction} = \frac{\text{VS before} \times \text{VS after}}{\text{VS before} - (\text{VS before} \times \text{VS after})} \times 100$$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

$$1\% \text{ Total Solids} = .01$$

$$20\% \text{ Total Solids} = .20$$

Alternative equations may be utilized if approved in writing by NJDEP.

946430005

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

1 2

1 9 9 2

5

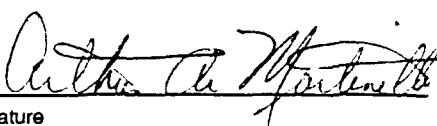
2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge**PARAMETER****STORET
CODE****TOTAL PHASE
(dry weight basis,****NONE
DETECTED****Metals**

Arsenic	01002						3	5	9	
Beryllium	01012						0	4	7	*
Cadmium	61527					1	4	1		
Chromium	61512				1	7	1	5		
Copper	61506				3	2	7	8		
Iron	01045			3	2	6	0			
Lead	61503				3	1	0			
Mercury	01260						1	2	1	
Molybdenum	01062					1	9	0		
Nickel	61515					4	0	8	0	
Selenium	61518						0	7	4	
Zinc	61509				8	8	0			

Selected Chemical

Total Nitrogen	00625			2	1	6	0	8		
Ammonia Nitrogen	71845					7	4	6		
Nitrate Nitrogen	71850						2	2		*
Oil and Grease	00550			4	1	4	7	5		
Phenols	46000						5	7	7	
Phosphorus	00665				3	3	6	0		
Calcium	00916		1	5	6	3	7	5		
Magnesium	00927				2	3	8	7		
Potassium	00937				1	3	7	5		
Cyanide	00720						1	7	8	2
Fluoride	00951						2	7	4	
Chloride	00940				1	7	8	0		

CERTIFICATE OF AUTHENTICITYArthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist
Title
SignatureFEB 23, 1993
DateLaboratory Name: Passaic Valley Sewerage CommissionersCert No. 07407

946430006

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

0 1

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER

STORET
CODETOTAL PHASE
(dry weight basis,NONE
DETECTEDPesticides and

Aldrin	39330					0	1	0	0
Chlordane	39350					0	1	0	0
Dieldrin	39380					0	1	0	0
DDT	39370					0	2	5	0
Heptachlor	39410					0	0	5	0
Lindane	39782					0	0	5	0
PCB's	39516					0	5	0	0
Toxaphene	39400					0	1	0	0

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*
*Purgeables

Benzene	34030					0	4	8	3
Carbon tetrachloride	32102					0	4	8	3
Chloroform	32106					0	4	8	3
Methylene Chloride	34423					0	4	8	3
Tetrachloroethylene	34475					0	6	0	9
Trichloroethylene	39180					0	4	8	3
Vinyl chloride	39175					0	9	6	6

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*Base/Neutrals and Acids

Benzidine	39120					1	5	2	
Benzo(a)pyrene	34247					0	3	0	4
Bis(2-ethylhexyl) phthalate	39100					3	2	4	
Hexachlorobenzene	39700					0	3	0	4
Hexachlorobutadiene	39702					0	3	0	4
N-nitrosodimethylamine	34438					0	6	0	8

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*

CERTIFICATE OF AUTHENTICITYArthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist, PVSC
Title
SignatureFeb. 5, 1993
DateLaboratory Name: Priority One Testing LaboratoryCert No. 09399

946430007

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which originated
from our Zimpro process.

946430008

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

Mo. 0 1

Yr. 1 9 9 3

5 1

Page 1 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	2 2 5 8

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT

1. Average Total Solids of Sludge	(% by weight)	B1:	5 5 0
2. Average Daily Sludge Production	(Gallons/Day)	B2:	4 6 6 4 1
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	1 0 6 9 8

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE

1. Complete ONLY If Liquid Sludge Is Removed			
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day)	C2:	
2. Complete ONLY If Dewatered Sludge Is Removed			
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	5 5 0
b. Complete ONE of the following:			
i. Average Daily Sludge Removal	(Gallons/Day)	C4:	
Total Solids of 2.b.i.	(% by weight)	C5:	
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	1 9 4 3
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	1 0 6 9 8
4. pH of Sludge Removed	(Standard Units)	C9:	5 0

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
E	PASSAIC VALLEY	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)

Chief Chemist
Title

Arthur A. Martinelli
Signature

FEB 25, 1993
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430009

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion; or

B. Aerobic Digestion; complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

b. After Stabilization (as weight % of TS)

c. Percent Reduction (see equation)

2. Detention Time (Days)

3. Average Temperature (Degrees C)

UNIT 1

UNIT 2

UNIT 3

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C. Air Drying (Report on any beds emptied for the report period)

BED

DATE SLUDGE LOADED

DEPTH POURED

DATE SLUDGE REMOVED

Month Day Year

Inches

Month Day Year

1. | | | | | |

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2. | | | | | |

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D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

$$A. \text{ Dry Tons} = \frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$$

$$B. \text{ Dry Tons} = \frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$$

$$y = \begin{aligned} &1.185 \text{ where solid content is less than 15\%} \\ &1.265 \text{ where solid content is 16\% to 23\%} \\ &1.58 \text{ where solid content is 24\% to 29\%} \\ &1.9 \text{ where solid content is greater than 30\%} \end{aligned}$$

$$C. \text{ Dry Tons} = \text{Tons (wet)} \times \text{Solid Content (of the wet tons)}$$

$$D. \text{ Volatile Solids Reduction} = \frac{\text{VS before} \times \text{VS after}}{\text{VS before} - (\text{VS before} \times \text{VS after})} \times 100$$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

$$\begin{aligned} 1\% \text{ Total Solids} &= .01 \\ 20\% \text{ Total Solids} &= .20 \end{aligned}$$

Alternative equations may be utilized if approved in writing by NJDEP.

946430010

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

1 2

1 9 9 2

5

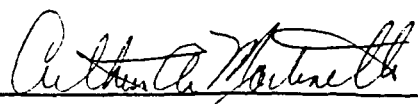
2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge**PARAMETER****STORET
CODE****TOTAL PHASE
(dry weight basis,****NONE
DETECTED****Metals**

Arsenic	01002					4	0	4	
Beryllium	01012					1	3	2	*
Cadmium	61527				3	3	3	5	
Chromium	61512			5	0	0	3	0	
Copper	61506		1	0	3	9	1		
Iron	01045		1	0	1	4	0		
Lead	61503			7	7	9			
Mercury	01260					1	8	4	
Molybdenum	01062				1	5	9		
Nickel	61515				8	6	5	5	
Selenium	61518					2	9	1	
Zinc	61509		2	5	7	1			

Selected Chemical

Total Nitrogen	00625		1	4	6	0	1		
Ammonia Nitrogen	71845				9	3	0		
Nitrate Nitrogen	71850					1	8		*
Oil and Grease	00550	1	3	7	3	6	3		
Phenols	46000				7	4	8		
Phosphorus	00665		1	3	3	0	0		
Calcium	00916		1	4	8	8	5		
Magnesium	00927			2	7	0	7		
Potassium	00937			1	0	4	0		
Cyanide	00720					4	3	5	
Fluoride	00951					9	1	0	
Chloride	00940			7	1	9			

CERTIFICATE OF AUTHENTICITYArthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist
Title
SignatureFEB 23, 1993
DateLaboratory Name: Passaic Valley Sewerage CommissionersCert No. 07407

946430011

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

0 1

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETER	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
<u>Pesticides and</u>			
Aldrin	39330	0 1 0 0	*
Chlordane	39350	0 1 0 0	*
Dieldrin	39380	0 1 0 0	*
DDT	39370	0 2 5 0	*
Heptachlor	39410	0 0 5 0	*
Lindane	39782	0 0 5 0	*
PCB's	39516	0 5 0 0	*
Toxaphene	39400	1 0 0 0	*
<u>Purgeables</u>			
Benzene	34030	0 1 6 4	
Carbon tetrachloride	32102	0 0 4 1	*
Chloroform	32106	0 0 4 1	*
Methylene Chloride	34423	0 0 4 1	*
Tetrachloroethylene	34475	0 2 5 7	
Trichloroethylene	39180	0 0 4 1	*
Vinyl chloride	39175	0 0 8 2	*
<u>Base/Neutrals and Acids</u>			
Benzidine	39120	4 5 1	*
Benzo(a)pyrene	34247	9 0 3	*
Bis(2-ethylhexyl) phthalate	39100	1 4 2	
Hexachlorobenzene	39700	9 0 3	*
Hexachlorobutadiene	39702	9 0 3	*
N-nitrosodimethylamine	34438	1 8 1	*

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)

Chief Chemist, PVSC
Title

Arthur A. Martinelli
Signature

Feb. 5, 1993
Date

Laboratory Name: Priority One Testing Laboratory

Cert No. 09399

946430012

MONITORING REPORT - TRANSMITTAL SHEET

Page 1 of 1

NPDES NO.

REPORTING PERIOD

MO. YR.

MO. YR.

0021016

0293 THRU 0293

PERMITTEE:

Name Passaic Valley Sewerage Commissioners
Address 600 Wilson Avenue
Newark, New Jersey 07105

FACILITY:

Name Passaic Valley Sewerage Commissioners
Address 600 Wilson Avenue
Newark, N.J. 07105 (County) Essex
Telephone (201) 344-1800

* - For reporting period 2/93

** - For reporting period 1/93

FORMS ATTACHED (Indicate Quantity of Each)

SLUDGE REPORTS - SANITARY

☒ 1 T-VWX-007 ☒ 1 T-VWX-008 ☒ 1 T-VWX-009
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SLUDGE REPORTS - INDUSTRIAL

☐ T-VWX-010A ☐ T-VWX-010B

WASTEWATER REPORTS

☐ T-VWX-011 ☐ T-VWX-012 ☐ T-VWX-013

GROUNDWATER REPORTS

☐ VWX-015(A,B) ☐ VWX-016 ☐ VWX-017

NPDES DISCHARGE MONITORING REPORT

☐ EPA FORM 3320-1

OPERATING EXCEPTIONS

	YES	NO
DYE TESTING	<input type="checkbox"/>	<input type="checkbox"/>
TEMPORARY BYPASSING	<input type="checkbox"/>	<input type="checkbox"/>
DISINFECTION INTERRUPTION	<input type="checkbox"/>	<input type="checkbox"/>
MONITORING MALFUNCTIONS	<input type="checkbox"/>	<input type="checkbox"/>
UNITS OUT OF OPERATION	<input type="checkbox"/>	<input type="checkbox"/>
OTHER	<input type="checkbox"/>	<input type="checkbox"/>

(Detail any "Yes" on reverse side in appropriate space.)

NOTE: The "Hours Attended at Plant" on the reverse of this sheet must also be completed.

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR

Name (Printed) Phil Habrukowich
Grade & Registry No. NJ S-4 #3972
Signature [Signature]
Date 3/25/93

**PRINCIPAL EXECUTIVE OFFICER or
DULY AUTHORIZED REPRESENTATIVE**

Name (Printed) Carmine T. Perrapato
Title (Printed) Executive Director
Signature [Signature]
Date 3/25/93

946430013

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which originated
from our Zimpro process.

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

Mo. 0 2

Yr. 1 9 9 3

5 1

Page 1 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	1 7 1 4

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	5 4 2
2. Average Daily Sludge Production	(Gallons/Day)	B2:	5 6 7 4 3
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	1 2 8 2 0

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed		
a. Total Solids of Liquid Sludge	(% by weight)	C1:
b. Average Daily Sludge Removal	(Gallons/Day)	C2:
2. Complete ONLY If Dewatered Sludge Is Removed		
a. Total Solids of Dewatered Sludge	(% by weight)	C3:
b. Complete ONE of the following:		
i. Average Daily Sludge Removal	(Gallons/Day)	C4:
Total Solids of 2.b.i.	(% by weight)	C5:
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:
4. pH of Sludge Removed	(Standard Units)	C9:

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
E	PASSAIC VALLEY	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)

Chief Chemist
Title

Arthur A. Martinelli
Signature

Mar. 19, 1993
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430015

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion; or

B. Aerobic Digestion; complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

UNIT 1

UNIT 2

UNIT 3

b. After Stabilization (as weight % of TS)

c. Percent Reduction (see equation)

2. Detention Time (Days)

3. Average Temperature (Degrees C)

C. Air Drying (Report on any beds emptied for the report period)

BED

DATE SLUDGE LOADED

DEPTH POURED

DATE SLUDGE REMOVED

Month Day Year

Inches

Month Day Year

1.

2.

3.

4.

5.

D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

$$A. \text{ Dry Tons} = \frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$$

$$B. \text{ Dry Tons} = \frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$$

y = 1.185 where solid content is less than 15%

= 1.265 where solid content is 16% to 23%

= 1.58 where solid content is 24% to 29%

= 1.9 where solid content is greater than 30%

$$C. \text{ Dry Tons} = \text{Tons (wet)} \times \text{Solid Content (of the wet tons)}$$

$$D. \text{ Volatile Solids Reduction} = \frac{\text{VS before} \times \text{VS after}}{\text{VS before} - (\text{VS before} \times \text{VS after})} \times 100$$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

1% Total Solids = .01

20% Total Solids = .20

Alternative equations may be utilized if approved in writing by NJDEP.

946430016

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

0 1

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge**PARAMETER****STORET
CODE****TOTAL PHASE
(dry weight basis,****NONE
DETECTED****Metals**

Arsenic	01002					2	3	2	
Beryllium	01012					1	1	5	*
Cadmium	61527					2	2	5	5
Chromium	61512				4	9	8	5	5
Copper	61506				9	4	2	8	5
Iron	01045			9	8	3	0		
Lead	61503				4	3	0	5	
Mercury	01260					1	9	1	
Molybdenum	01062				1	8	5		
Nickel	61515				6	9	8		
Selenium	61518					3	2	9	
Zinc	61509			1	3	1	0		

Selected Chemical


Total Nitrogen	00625		1	6	6	3	6		
Ammonia Nitrogen	71845			1	0	6	3		
Nitrate Nitrogen	71850						1	8	*
Oil and Grease	00550	1	3	8	1	8	2		
Phenols	46000					6	7	5	
Phosphorus	00665		1	1	1	2	0		
Calcium	00916		1	6	3	5	5		
Magnesium	00927			2	6	3	0		
Potassium	00937				8	9	5		
Cyanide	00720						3	2	7
Fluoride	00951					1	1	8	
Chloride	00940				1	7	8		

CERTIFICATE OF AUTHENTICITYArthur A. Martinelli

Name of Authorized Agent (Print)

Chief Chemist

Title


SignatureMar 23, 1993
DateLaboratory Name: Passaic Valley Sewerage CommissionersCert No. 07407**946430017**

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

0 2

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETER

STORET
CODETOTAL PHASE
(dry weight basis,NONE
DETECTEDPesticides and

Aldrin

39330

0 1 0 0

*

Chlordane

39350

0 1 0 0

*

Dieldrin

39380

0 1 0 0

*

DDT

39370

0 2 5 0

*

Heptachlor

39410

0 0 5 0

*

Lindane

39782

0 0 5 0

*

PCB's

39516

0 5 0 0

*

Toxaphene

39400

1 0 0

*

Purgeables

Benzene

34030

0 1 9 7

Carbon tetrachloride

32102

0 0 4 7

*

Chloroform

32106

0 0 4 7

*

Methylene Chloride

34423

0 0 4 7

*

Tetrachloroethylene

34475

0 1 6 6

Trichloroethylene

39180

0 0 4 7

*

Vinyl chloride

39175

0 0 9 3

*

Base/Neutrals and Acids

Benzidine

39120

9 3 0

*

Benzo(a)pyrene

34247

1 8 6

*

Bis(2-ethylhexyl) phthalate

39100

1 3 9

Hexachlorobenzene

39700

1 8 6

*

Hexachlorobutadiene

39702

1 8 6

*

N-nitrosodimethylamine

34438

3 7 2

*

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Name of Authorized Agent (Print)

Chief Chemist, PVSC

Title

Signature

Mar 11, 1993
DateLaboratory Name: Priority One Testing LaboratoryCert No. 09399

946430018

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

Mo. 0 2

Yr. 1 9 9 3

5 1

Page 2 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	1 7 1 4

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	4 8 0
2. Average Daily Sludge Production	(Gallons/Day)	B2:	2 6 0 2 8
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	5 2 0 2

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed			
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day)	C2:	
2. Complete ONLY If Dewatered Sludge Is Removed			
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	4 8 0
b. Complete ONE of the following:			
i. Average Daily Sludge Removal	(Gallons/Day)	C4:	
Total Solids of 2.b.i.	(% by weight)	C5:	
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	1 0 8 5
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	5 2 0 2
4. pH of Sludge Removed	(Standard Units)	C9:	9 9

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
D	PASSAIC VALLEY	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)

Chief Chemist
Title


Signature

Mar. 19, 1993
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430020

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion; or

B. Aerobic Digestion: complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

UNIT 1

UNIT 2

UNIT 3

UNIT 1

UNIT 2

UNIT 3

b. After Stabilization (as weight % of TS)

UNIT 1

UNIT 2

UNIT 3

c. Percent Reduction (see equation)

UNIT 1

UNIT 2

UNIT 3

2. Detention Time (Days)

UNIT 1

UNIT 2

UNIT 3

3. Average Temperature (Degrees C)

UNIT 1

UNIT 2

UNIT 3

C. Air Drying (Report on any beds emptied for the report period)

BED

DATE SLUDGE LOADED

DEPTH POURED

DATE SLUDGE REMOVED

Month Day Year

Inches

Month Day Year

1.

Month Day Year

Inches

Month Day Year

2.

Month Day Year

Inches

Month Day Year

3.

Month Day Year

Inches

Month Day Year

4.

Month Day Year

Inches

Month Day Year

5.

Month Day Year

Inches

Month Day Year

D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

A. Dry Tons = $\frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$

B. Dry Tons = $\frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$

y = 1.185 where solid content is less than 15%

= 1.265 where solid content is 16% to 23%

= 1.58 where solid content is 24% to 29%

= 1.9 where solid content is greater than 30%

C. Dry Tons = Tons (wet) X Solid Content (of the wet tons)

D. Volatile Solids Reduction = $\frac{\text{VS before} - \text{VS after}}{\text{VS before} - (\text{VS before} \times \text{VS after})} \times 100$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

1% Total Solids = .01

20% Total Solids = .20

Alternative equations may be utilized if approved in writing by NJDEP.

946430021

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

0 1

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge**PARAMETER****STORET
CODE****TOTAL PHASE
(dry weight basis,****NONE
DETECTED****Metals**

Arsenic	01002					2	4	4	
Beryllium	01012					0	4	0	*
Cadmium	61527				1	1	6		
Chromium	61512			1	6	5	3		
Copper	61506			3	2	3	9		
Iron	01045		2	7	7	0			
Lead	61503			1	7	7			
Mercury	01260					0	5	3	
Molybdenum	01062				1	4	2		
Nickel	61515				3	4	8		
Selenium	61518					1	2	5	
Zinc	61509			4	2	4	5		

Selected Chemical

Total Nitrogen	00625		3	0	2	5	6		
Ammonia Nitrogen	71845				8	6	9		
Nitrate Nitrogen	71850				2	1	5		
Oil and Grease	00550		3	7	2	2	0		
Phenols	46000					8	2	2	
Phosphorus	00665			6	6	0	0		
Calcium	00916	1	5	4	5	0	0		
Magnesium	00927			2	3	0	2		
Potassium	00937				9	9	2		
Cyanide	00720					1	2	7	7
Fluoride	00951					3	1	5	
Chloride	00940			4	2	9	0		

CERTIFICATE OF AUTHENTICITYArthur A. Martinelli

Name of Authorized Agent (Print)

Chief Chemist

Title


SignatureMar 23, 1993
DateLaboratory Name: Passaic Valley Sewerage CommissionersCert No. 07407

946430022

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

0 2 1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER

STORET
CODETOTAL PHASE
(dry weight basis,NONE
DETECTEDPesticides and

Aldrin	39330	0 1 0 0
Chlordane	39350	0 1 0 0
Dieldrin	39380	0 1 0 0
DDT	39370	0 2 5 0
Heptachlor	39410	0 0 5 0
Lindane	39782	0 0 5 0
PCB's	39516	0 5 0 0
Toxaphene	39400	1 0 0

*
*
*
*
*
*
*
*Purgeables

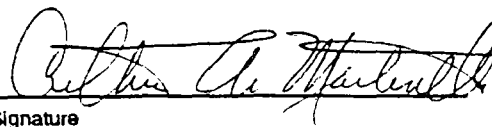
Benzene	34030	5 0 7
Carbon tetrachloride	32102	5 0 7
Chloroform	32106	5 0 7
Methylene Chloride	34423	5 0 7
Tetrachloroethylene	34475	5 0 7
Trichloroethylene	39180	5 0 7
Vinyl chloride	39175	1 0 1

*
*
*
*
*
*
*Base/Neutrals and Acids

Benzidine	39120	1 9 2
Benzo(a)pyrene	34247	0 3 8 4
Bis(2-ethylhexyl) phthalate	39100	3 5 9
Hexachlorobenzene	39700	0 3 8 4
Hexachlorobutadiene	39702	0 3 8 4
N-nitrosodimethylamine	34438	0 7 6 8

*
*

*
*
*

CERTIFICATE OF AUTHENTICITYArthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist, PVSC
Title
SignatureMar 11, 1993
DateLaboratory Name: Priority One Testing LaboratoryCert No. 09399

946430023

MONITORING REPORT - TRANSMITTAL SHEET

NJPDES NO.

REPORTING PERIOD

MO. YR.

MO. YR.

Page 1 of 1

01021016

0393 THRU 0393

PERMITTEE:

Name Passaic Valley Sewerage Commissioners

Address 600 Wilson Avenue

Newark, New Jersey 07105

FACILITY:

Name Passaic Valley Sewerage Commissioners

Address 600 Wilson Avenue

Newark, N.J. 07105 (County) Essex

Telephone (201) 344-1800

* For reporting period 3/93

** For reporting period 2/93

FORMS ATTACHED (Indicate Quantity of Each)

SLUDGE REPORTS - SANITARY

☒ 1

T-VWX-007

☒ 1

T-VWX-008

☒ 1

T-VWX-009

*

**

*

SLUDGE REPORTS - INDUSTRIAL

☐

T-VWX-010A

☐

T-VWX-010B

WASTEWATER REPORTS

☐

T-VWX-011

☐

T-VWX-012

☐

T-VWX-013

GROUNDWATER REPORTS

☐

VWX-015(A,B)

☐

VWX-016

☐

VWX-017

NPDES DISCHARGE MONITORING REPORT

☐

EPA FORM 3320-1

OPERATING EXCEPTIONS

YES NO

DYE TESTING

☐

☐

TEMPORARY BYPASSING

☐

☐

DISINFECTION INTERRUPTION

☐

☐

MONITORING MALFUNCTIONS

☐

☐

UNITS OUT OF OPERATION

☐

☐

OTHER

☐

☐

(Detail any "Yes" on reverse side
in appropriate space.)

NOTE: The "Hours Attended at Plant" on the
reverse of this sheet must also be completed.

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR

Name (Printed) Phil Habrukowich

Grade & Registry No. NJ S-4, #3972

Signature 

Date 4/23/93

**PRINCIPAL EXECUTIVE OFFICER or
DULY AUTHORIZED REPRESENTATIVE**

Name (Printed) Carmine T. Perrapato

Title (Printed) Executive Director

Signature 

Date 4/23/93

946430024

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which originated from our Zimpro process.

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

Mo. 0 3

Yr. 1 9 9 3

5 1

Page 1 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	2 1 2 9

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	5 2 6
2. Average Daily Sludge Production	(Gallons/Day)	B2:	7 8 0 4 2
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	1 7 1 1 8

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed		
a. Total Solids of Liquid Sludge	(% by weight)	C1:
b. Average Daily Sludge Removal	(Gallons/Day)	C2:
2. Complete ONLY If Dewatered Sludge Is Removed		
a. Total Solids of Dewatered Sludge	(% by weight)	C3:
b. Complete ONE of the following:		
i. Average Daily Sludge Removal	(Gallons/Day)	C4:
Total Solids of 2.b.i.	(% by weight)	C5:
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:
4. pH of Sludge Removed	(Standard Units)	C9:

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
E	PASSAIC VALLEY	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)

Chief Chemist
Title

Arthur A. Martinelli
Signature

APR 13, 1993
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430026

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion; or

B. Aerobic Digestion; complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

b. After Stabilization (as weight % of TS)

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

c. Percent Reduction (see equation)

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

2. Detention Time (Days)

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

3. Average Temperature (Degrees C)

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

C. Air Drying (Report on any beds emptied for the report period)

BED

DATE SLUDGE LOADED

DEPTH POURED

DATE SLUDGE REMOVED

Month Day Year

Inches

Month Day Year

1.

--	--	--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--	--	--

2.

--	--	--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--	--	--

3.

--	--	--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--	--	--

4.

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5.

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D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

A. Dry Tons = $\frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$

B. Dry Tons = $\frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$

y = 1.185 where solid content is less than 15%
 = 1.265 where solid content is 16% to 23%
 = 1.58 where solid content is 24% to 29%
 = 1.9 where solid content is greater than 30%

C. Dry Tons = Tons (wet) X Solid Content (of the wet tons)

D. Volatile Solids Reduction = $\frac{\text{VS before} - \text{VS after}}{\text{VS before}} \times 100$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

1% Total Solids = .01
 20% Total Solids = .20

Alternative equations may be utilized if approved in writing by NJDEP.

946430027

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

0 2

1 9 9 3

5

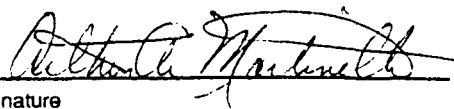
2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge**PARAMETER****STORET
CODE****TOTAL PHASE
(dry weight basis,****NONE
DETECTED****Metals**

Arsenic	01002					1	9	5	*
Beryllium	01012					1	4	8	*
Cadmium	61527				2	2	2	0	
Chromium	61512			5	2	9	8	5	
Copper	61506		1	2	3	1	0		
Iron	01045		9	6	1	0			
Lead	61503			4	1	7	0		
Mercury	01260					1	9	5	
Molybdenum	01062				1	2	7		
Nickel	61515				8	0	1	5	
Selenium	61518					5	7	5	
Zinc	61509		1	2	8	9			

Selected Chemical

Total Nitrogen	00625		2	5	5	5	0		
Ammonia Nitrogen	71845				9	9	7		
Nitrate Nitrogen	71850					0	4	8	
Oil and Grease	00550	1	4	6	6	7	9		
Phenols	46000				1	6	3	2	1
Phosphorus	00665		1	1	9	0	0		
Calcium	00916		1	9	3	7	5		
Magnesium	00927			3	2	6	8		
Potassium	00937				6	4	0		
Cyanide	00720					6	2	2	
Fluoride	00951					1	3	0	
Chloride	00940				1	8	5		

CERTIFICATE OF AUTHENTICITYArthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist
Title
SignatureApr. 6, 1993
DateLaboratory Name: Passaic Valley Sewerage CommissionersCert No. 07407**946430028**

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

0 3

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETER

STORET
CODETOTAL PHASE
(dry weight basis,NONE
DETECTEDPesticides and

Aldrin	39330	0 0 0 9
Chlordane	39350	0 1 2 7
Dieldrin	39380	0 0 1 0
DDT	39370	0 0 5 3
Heptachlor	39410	0 0 0 4
Lindane	39782	0 0 1 1
PCB's	39516	0 6 3 5
Toxaphene	39400	1 2 7

*
*
*
*
*
*
*
*Purgeables

Benzene	34030	0 1 8 2
Carbon tetrachloride	32102	0 0 4 8
Chloroform	32106	0 0 4 8
Methylene Chloride	34423	0 0 4 8
Tetrachloroethylene	34475	0 1 8 5
Trichloroethylene	39180	0 0 4 8
Vinyl chloride	39175	0 0 9 5

*
*
*
*
*
*
*Base/Neutrals and Acids

Benzidine	39120	3 1 8
Benzo(a)pyrene	34247	1 6 4
Bis(2-ethylhexyl) phthalate	39100	9 4 2
Hexachlorobenzene	39700	1 6 4
Hexachlorobutadiene	39702	1 6 4
N-nitrosodimethylamine	34438	1 2 7

*
*
*
*
*
*
*
*CERTIFICATE OF AUTHENTICITYArthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist, PVSC
Title
SignatureAPR 13, 1993
DateLaboratory Name: Priority One Testing LaboratoryCert No. 09399

946430029

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



**Passaic Valley
Sewerage Commissioners**

**600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951**

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

Mo. 0 3

Yr. 1 9 9 3

5 1

Page 2 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	2 1 2 9

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	4 4 5
2. Average Daily Sludge Production	(Gallons/Day)	B2:	1 1 9 8 0
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	2 2 2 1

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed		
a. Total Solids of Liquid Sludge	(% by weight)	C1:
b. Average Daily Sludge Removal	(Gallons/Day)	C2:
2. Complete ONLY If Dewatered Sludge Is Removed		
a. Total Solids of Dewatered Sludge	(% by weight)	C3:
b. Complete ONE of the following:		
i. Average Daily Sludge Removal	(Gallons/Day)	C4:
Total Solids of 2.b.i.	(% by weight)	C5:
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:
4. pH of Sludge Removed	(Standard Units)	C9:

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
D	P A S S A I C V A L L E Y	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist
Title
SignatureAPR 13, 1993
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430031

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

- A. Anaerobic Digestion; or
B. Aerobic Digestion; complete the following:

	UNIT 1	UNIT 2	UNIT 3
1. Percent Volatile Solids:			
a. Before Stabilization (as weight % of TS)	<input type="text"/>	<input type="text"/>	<input type="text"/>
b. After Stabilization (as weight % of TS)	<input type="text"/>	<input type="text"/>	<input type="text"/>
c. Percent Reduction (see equation)	<input type="text"/>	<input type="text"/>	<input type="text"/>
2. Detention Time (Days)	<input type="text"/>	<input type="text"/>	<input type="text"/>
3. Average Temperature (Degrees C)	<input type="text"/>	<input type="text"/>	<input type="text"/>

- C. Air Drying (Report on any beds emptied for the report period)

BED	DATE SLUDGE LOADED			DEPTH POURED Inches	DATE SLUDGE REMOVED		
	Month	Day	Year		Month	Day	Year
1.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
5.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

- D. State Approved Lime Stabilization
E. Thermal Treatment/Drying
F. Phragmites
G. Composting
H. Other (specify here: _____)
I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site
2. State Approved Distribution Permit
3. Incineration
4. Ocean Disposal
5. Out of State
6. Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs.
7. Other (specify here: _____)
8. None Removed

EQUATIONS

A. Dry Tons = $\frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$

B. Dry Tons = $\frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$

y = 1.185 where solid content is less than 15%
y = 1.265 where solid content is 16% to 23%
y = 1.58 where solid content is 24% to 29%
y = 1.9 where solid content is greater than 30%

C. Dry Tons = Tons (wet) X Solid Content (of the wet tons)

D. Volatile Solids Reduction = $\frac{\text{VS before} - \text{VS after}}{\text{VS before}} \times 100$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

1% Total Solids = .01
20% Total Solids = .20

Alternative equations may be utilized if approved in writing by NJDEP.

946430032

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

0 0 2 1 0 1 6

Mo. Yr.
0 2 1 9 9 3

CATEGORY
5 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER

**STORET
CODE**

**TOTAL PHASE
(dry weight basis,**

**NONE
DETECTED**

Metals

Arsenic	01002					0	7	8	
Beryllium	01012					0	3	9	*
Cadmium	61527					8	9	0	
Chromium	61512			1	2	4	6		
Copper	61506			3	3	7	5	5	
Iron	01045			2	4	4	0		
Lead	61503			1	8	9			
Mercury	01260					0	4	9	
Molybdenum	01062				1	3	8		
Nickel	61515				3	4	9		
Selenium	61518					2	5	8	
Zinc	61509			4	1	5			

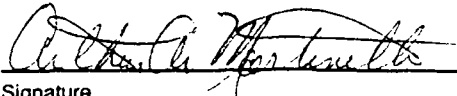
Selected Chemical

Total Nitrogen	00625		1	5	5	5	4		
Ammonia Nitrogen	71845				2	5	3		
Nitrate Nitrogen	71850					0	7	2	
Oil and Grease	00550		1	8	5	8	3		
Phenols	46000				2	4	2	9	
Phosphorus	00665			3	8	6	0		
Calcium	00916	2	2	4	2	5	0		
Magnesium	00927			2	7	5	5		
Potassium	00937			1	0	1	6		
Cyanide	00720					5	0	8	
Fluoride	00951				2	1	9		
Chloride	00940			5	3	2	0		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)

Chief Chemist
Title


Signature

Apr. 6, 1993
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07407

946430033

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

0 3

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER

STORET
CODETOTAL PHASE
(dry weight basis,NONE
DETECTEDPesticides and

Aldrin	39330					0	0	0	1
Chlordane	39350					0	0	1	4
Dieldrin	39380					0	0	0	1
DDT	39370					0	0	0	6
Heptachlor	39410					0	0	0	1
Lindane	39782					0	0	0	1
PCB's	39516					0	0	7	2
Toxaphene	39400					0	1	4	4

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*Purgeables

Benzene	34030					0	0	5	8
Carbon tetrachloride	32102					0	0	5	8
Chloroform	32106					0	0	5	8
Methylene Chloride	34423					0	0	5	8
Tetrachloroethylene	34475					0	0	8	6
Trichloroethylene	39180					0	0	5	8
Vinyl chloride	39175					0	1	1	5

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*
*Base/Neutrals and Acids

Benzidine	39120					0	3	6	0
Benzo(a)pyrene	34247					0	0	7	2
Bis(2-ethylhexyl) phthalate	39100					3	8	3	
Hexachlorobenzene	39700					0	0	7	2
Hexachlorobutadiene	39702					0	0	7	2
N-nitrosodimethylamine	34438					0	1	4	4

*
*

*
*
*

CERTIFICATE OF AUTHENTICITYArthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist, PVSC
Title
SignatureAPR 13, 1993
DateLaboratory Name: Priority One Testing LaboratoryCert No. 09399

946430034

MONITORING REPORT - TRANSMITTAL SHEET

Page 1 of 1

NJPDES NO.

REPORTING PERIOD

MO. YR.

MO. YR.

0021016

0493 THRU 0493

PERMITTEE:

Name Passaic Valley Sewerage Commissioners

Address 600 Wilson Avenue

Newark, New Jersey 07105

FACILITY:

Name Passaic Valley Sewerage Commissioners

Address 600 Wilson Avenue

Newark, N.J. 07105

(County) Essex

Telephone (201) 344-1800

* - For reporting period 4/93

** - For reporting period 3/93

FORMS ATTACHED (Indicate Quantity of Each)

SLUDGE REPORTS - SANITARY

☒ 1

T-VWX-007

☒ 1

T-VWX-008

☒ 1

T-VWX-009

*

**

*

SLUDGE REPORTS - INDUSTRIAL

☐

T-VWX-010A

☐

T-VWX-010B

WASTEWATER REPORTS

☐

T-VWX-011

☐

T-VWX-012

☐

T-VWX-013

GROUNDWATER REPORTS

☐

VWX-015(A,B)

☐

VWX-016

☐

VWX-017

NPDES DISCHARGE MONITORING REPORT

☐

EPA FORM 3320-1

OPERATING EXCEPTIONS

YES NO

DYE TESTING

☐ ☐

TEMPORARY BYPASSING

☐ ☐

DISINFECTION INTERRUPTION

☐ ☐

MONITORING MALFUNCTIONS

☐ ☐

UNITS OUT OF OPERATION

☐ ☐

OTHER

☐ ☐

(Detail any "Yes" on reverse side
in appropriate space.)

NOTE: The "Hours Attended at Plant" on the
reverse of this sheet must also be completed.

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR

Name (Printed) Phil Habrukowich

Grade & Registry No. NJ S-7A #3972

Signature 

Date 5/24/93

**PRINCIPAL EXECUTIVE OFFICER or
DULY AUTHORIZED REPRESENTATIVE**

Name (Printed) Carmine T. Perrapato

Title (Printed) Executive Director

Signature 

Date 5/24/93

946430035

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



**Passaic Valley
Sewerage Commissioners**

**600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951**

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which originated
from our Zimpro process.

946430036

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

Mo.
0 4Yr.
1 9 9 3

5 1

Page 1 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	2 2 3 3

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	5 5 7
2. Average Daily Sludge Production	(Gallons/Day)	B2:	6 4 4 0 8
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	1 4 9 3 9

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed			
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day)	C2:	
2. Complete ONLY If Dewatered Sludge Is Removed			
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	5 5 7
b. Complete ONE of the following:			
i. Average Daily Sludge Removal	(Gallons/Day)	C4:	
Total Solids of 2.b.i.	(% by weight)	C5:	
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	2 6 8 4
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	1 4 9 3 9
4. pH of Sludge Removed	(Standard Units)	C9:	5 0

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
E	PASSAIC VALLEY	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist
Title
SignatureMay 18, 1993
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430037

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion; or

B. Aerobic Digestion; complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

b. After Stabilization (as weight % of TS)

c. Percent Reduction (see equation)

2. Detention Time (Days)

3. Average Temperature (Degrees C)

UNIT 1

UNIT 2

UNIT 3

C. Air Drying (Report on any beds emptied for the report period)

BED

DATE SLUDGE LOADED

DEPTH POURED

DATE SLUDGE REMOVED

Month Day Year

Inches

Month Day Year

1. 2. 3. 4. 5.

D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

$$\text{A. Dry Tons} = \frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$$

$$\text{B. Dry Tons} = \frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$$

$$\begin{aligned} y &= 1.185 \text{ where solid content is less than 15\%} \\ &= 1.265 \text{ where solid content is 16\% to 23\%} \\ &= 1.58 \text{ where solid content is 24\% to 29\%} \\ &= 1.9 \text{ where solid content is greater than 30\%} \end{aligned}$$

$$\text{C. Dry Tons} = \text{Tons (wet)} \times \text{Solid Content (of the wet tons)}$$

$$\text{D. Volatile Solids Reduction} = \frac{\text{VS before} \times \text{VS after}}{\text{VS before} - (\text{VS before} \times \text{VS after})} \times 100$$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

$$\begin{aligned} 1\% \text{ Total Solids} &= .01 \\ 20\% \text{ Total Solids} &= .20 \end{aligned}$$

Alternative equations may be utilized if approved in writing by NJDEP.

946430038

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

0 3

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge**PARAMETER****STORET
CODE****TOTAL PHASE
(dry weight basis,****NONE
DETECTED****Metals**

Arsenic	01002						3	6	9	
Beryllium	01012						0	6	5	*
Cadmium	61527					1	8	5		
Chromium	61512				4	0	4	0	5	
Copper	61506			1	0	7	0	7	5	
Iron	01045			8	9	2	0			
Lead	61503				3	6	5			
Mercury	01260						1	6	1	
Molybdenum	01062					1	7	1		
Nickel	61515					6	7	6	0	
Selenium	61518						5	1	5	
Zinc	61509			1	0	8	5			

Selected Chemical

Total Nitrogen	00625		2	6	3	7	8			
Ammonia Nitrogen	71845				2	5	0			
Nitrate Nitrogen	71850						1	9		*
Oil and Grease	00550	1	3	4	0	3	0			
Phenols	46000				1	1	6	9	2	
Phosphorus	00665		1	1	7	0	0			
Calcium	00916		1	2	6	0	0			
Magnesium	00927			2	4	0	3			
Potassium	00937			1	0	0	4			
Cyanide	00720						6	4	0	
Fluoride	00951						9	5	5	
Chloride	00940				1	8	6			

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Chief Chemist

Name of Authorized Agent (Print)

Title

Signature

MAY 13, 1993
DateLaboratory Name: Passaic Valley Sewerage CommissionersCert No. 07407

946430039

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

0 4

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETER

STORET
CODETOTAL PHASE
(dry weight basis,NONE
DETECTEDPesticides and

Aldrin

39330

0 0 2 3

*

Chlordane

39350

0 3 3 4

*

Dieldrin

39380

0 0 2 7

*

DDT

39370

0 1 4 0

*

Heptachlor

39410

0 0 1 0

*

Lindane

39782

0 0 3 0

*

PCB's

39516

1 6 7

*

Toxaphene

39400

3 3 4

*

Purgeables

Benzene

34030

0 1 9 4

Carbon tetrachloride

32102

0 0 4 5

*

Chloroform

32106

0 0 4 5

*

Methylene Chloride

34423

0 0 4 5

*

Tetrachloroethylene

34475

0 1 6 6

Trichloroethylene

39180

0 0 4 5

*

Vinyl chloride

39175

0 0 8 9

*

Base/Neutrals and Acids

Benzidine

39120

8 9 4

*

Benzo(a)pyrene

34247

1 7 9

*

Bis(2-ethylhexyl) phthalate

39100

4 6 0

Hexachlorobenzene

39700

1 7 9

*

Hexachlorobutadiene

39702

1 7 9

*

N-nitrosodimethylamine

34438

3 5 8

*

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Chief Chemist, PVSC

Name of Authorized Agent (Print)

Title

Signature

MAY 13, 1993

Date

Laboratory Name: Priority One Testing LaboratoryCert No. 09399

946430040

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

Mo.
0 4Yr.
1 9 9 3

5 1

Page 2 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	2 2 3 3

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	4 6 6
2. Average Daily Sludge Production	(Gallons/Day)	B2:	1 3 1 6 8
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	2 5 5 8

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed			
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day)	C2:	
2. Complete ONLY If Dewatered Sludge Is Removed			
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	4 6 6
b. Complete ONE of the following:			
i. Average Daily Sludge Removal	(Gallons/Day)	C4:	
Total Solids of 2.b.i.	(% by weight)	C5:	
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	5 4 9
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	2 5 5 8
4. pH of Sludge Removed	(Standard Units)	C9:	1 1 1

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
D	PASSAIC VALLEY	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist
Title
SignatureMay 18, 1993
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430042

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion; or

B. Aerobic Digestion; complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

b. After Stabilization (as weight % of TS)

c. Percent Reduction (see equation)

2. Detention Time (Days)

3. Average Temperature (Degrees C)

UNIT 1

UNIT 2

UNIT 3

| | . |

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C. Air Drying (Report on any beds emptied for the report period)

BED

DATE SLUDGE LOADED

DEPTH POURED

DATE SLUDGE REMOVED

Month Day Year

Inches

Month Day Year

1.

| | | | |

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2.

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3.

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4.

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5.

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D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

$$A. \text{ Dry Tons} = \frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$$

$$B. \text{ Dry Tons} = \frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$$

$$y = 1.185 \text{ where solid content is less than 15\%}$$

$$= 1.265 \text{ where solid content is 16\% to 23\%}$$

$$= 1.58 \text{ where solid content is 24\% to 29\%}$$

$$= 1.9 \text{ where solid content is greater than 30\%}$$

$$C. \text{ Dry Tons} = \text{Tons (wet)} \times \text{Solid Content (of the wet tons)}$$

$$D. \text{ Volatile Solids Reduction} = \frac{\text{VS before} \times \text{VS after}}{\text{VS before} - (\text{VS before} \times \text{VS after})} \times 100$$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

$$1\% \text{ Total Solids} = .01$$

$$20\% \text{ Total Solids} = .20$$

Alternative equations may be utilized if approved in writing by NJDEP.

946430043

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

0 3

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge**PARAMETER****STORET
CODE****TOTAL PHASE
(dry weight basis,****NONE
DETECTED****Metals**

Arsenic	01002					1	3	7	
Beryllium	01012					0	5	2	*
Cadmium	61527					7	2	5	
Chromium	61512				9	2	8	0	
Copper	61506			2	4	2	7		
Iron	01045		2	4	1	0			
Lead	61503			2	1	3			
Mercury	01260					0	3	3	
Molybdenum	01062				1	6	6		
Nickel	61515				3	5	3	0	
Selenium	61518					0	4	6	*
Zinc	61509			3	0	7			

Selected Chemical

Total Nitrogen	00625			8	3	1	9		
Ammonia Nitrogen	71845				4	6	6		
Nitrate Nitrogen	71850					4	1	0	
Oil and Grease	00550		1	6	9	3	8		
Phenols	46000					1	5	0	6
Phosphorus	00665			4	2	1	0		
Calcium	00916		2	4	6	7	5	0	
Magnesium	00927			2	4	7	8		
Potassium	00937				9	1	1		
Cyanide	00720					1	1	3	7
Fluoride	00951					2	1	5	
Chloride	00940			2	1	6	0		

CERTIFICATE OF AUTHENTICITYArthur A. MartinelliChief Chemist

Name of Authorized Agent (Print)

Title

Signature

MAY 13, 1993
DateLaboratory Name: Passaic Valley Sewerage CommissionersCert No. 07407**946430044**

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

0 4

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
<u>Pesticides and</u>			
Aldrin	39330	0 0 0 6	*
Chlordane	39350	0 0 8 1	*
Dieldrin	39380	0 0 0 6	*
DDT	39370	0 0 3 4	*
Heptachlor	39410	0 0 0 2	*
Lindane	39782	0 0 0 7	*
PCB's	39516	0 4 0 6	*
Toxaphene	39400	0 8 1 1	*
<u>Purgeables</u>			
Benzene	34030	0 5 2 0	*
Carbon tetrachloride	32102	0 5 2 0	*
Chloroform	32106	0 5 2 0	*
Methylene Chloride	34423	0 5 2 0	*
Tetrachloroethylene	34475	0 5 2 0	*
Trichloroethylene	39180	0 5 2 0	*
Vinyl chloride	39175	1 0 4 0	*
<u>Base/Neutrals and Acids</u>			
Benzidine	39120	0 3 4 6	*
Benzo(a)pyrene	34247	0 0 6 9	*
Bis(2-ethylhexyl) phthalate	39100	1 4 6	*
Hexachlorobenzene	39700	0 0 6 9	*
Hexachlorobutadiene	39702	0 0 6 9	*
N-nitrosodimethylamine	34438	0 1 3 8	*

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist, PVSC
Title
SignatureMay 21, 1993
DateLaboratory Name: Priority One Testing LaboratoryCert No. 09399

946430045

MONITORING REPORT - TRANSMITTAL SHEET

Page 1 of 1

NJPDES NO.

REPORTING PERIOD

MO. YR.

MO. YR.

0021016

0593 THRU 0593

PERMITTEE:

Name Passaic Valley Sewerage Commissioners

Address 600 Wilson Avenue

Newark, New Jersey 07105

FACILITY:

Name Passaic Valley Sewerage Commissioners

Address 600 Wilson Avenue

Newark, N.J. 07105 (County) Essex

Telephone (201) 344-1800

* For reporting period 5/93
** For reporting period 4/93

FORMS ATTACHED (Indicate Quantity of Each)

SLUDGE REPORTS - SANITARY

☒ 1 T-VWX-007 ☒ 1 T-VWX-008 ☒ 1 T-VWX-009
* ** *

SLUDGE REPORTS - INDUSTRIAL

☐ T-VWX-010A ☐ T-VWX-010B

WASTEWATER REPORTS

☐ T-VWX-011 ☐ T-VWX-012 ☐ T-VWX-013

GROUNDWATER REPORTS

☐ VWX-015(A,B) ☐ VWX-016 ☐ VWX-017

NPDES DISCHARGE MONITORING REPORT

☐ EPA FORM 3320-1

OPERATING EXCEPTIONS

	YES	NO
DYE TESTING	<input type="checkbox"/>	<input type="checkbox"/>
TEMPORARY BYPASSING	<input type="checkbox"/>	<input type="checkbox"/>
DISINFECTION INTERRUPTION	<input type="checkbox"/>	<input type="checkbox"/>
MONITORING MALFUNCTIONS	<input type="checkbox"/>	<input type="checkbox"/>
UNITS OUT OF OPERATION	<input type="checkbox"/>	<input type="checkbox"/>
OTHER	<input type="checkbox"/>	<input type="checkbox"/>

(Detail any "Yes" on reverse side
in appropriate space.)

NOTE: The "Hours Attended at Plant" on the
reverse of this sheet must also be completed.

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR

Name (Printed) Phil Habrukowich

Grade & Registry No. NJ S-4 #3972

Signature [Signature]

Date 6/25/93

**PRINCIPAL EXECUTIVE OFFICER or
DULY AUTHORIZED REPRESENTATIVE**

Name (Printed) Carmine T. Perrapato

Title (Printed) Executive Director

Signature [Signature]

Date 6/15/93

946430046

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



**Passaic Valley
Sewerage Commissioners**

**600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951**

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which originated from our Zimpro process.

946430047

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

Mo. 0 5

Yr. 1 9 9 3

5 1

Page 1 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3	3	0	0
2. Industrial Contribution	(% of influent)	A2:	1	8		
3. Average Daily Septage Treated	(Gallons/Day)	A3:		3	0	9

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	6	0	9		
2. Average Daily Sludge Production	(Gallons/Day)	B2:	4	4	2	2	1
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	1	1	2	2	1

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed							
a. Total Solids of Liquid Sludge	(% by weight)	C1:					
b. Average Daily Sludge Removal	(Gallons/Day)	C2:					
2. Complete ONLY If Dewatered Sludge Is Removed							
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	6	0	9		
b. Complete ONE of the following:							
i. Average Daily Sludge Removal	(Gallons/Day)	C4:					
Total Solids of 2.b.i.	(% by weight)	C5:					
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:					
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:		1	8	4	3
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	1	1	2	2	1
4. pH of Sludge Removed	(Standard Units)	C9:		5	2		

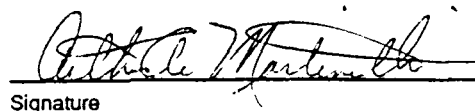
D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
E	PASSAIC VALLEY	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist
Title
Signature6/21/93
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430048

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion; or

B. Aerobic Digestion; complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

b. After Stabilization (as weight % of TS)

c. Percent Reduction (see equation)

2. Detention Time (Days)

3. Average Temperature (Degrees C)

UNIT 1

UNIT 2

UNIT 3

| | . |

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C. Air Drying (Report on any beds emptied for the report period)

BED

DATE SLUDGE LOADED

DEPTH POURED

DATE SLUDGE REMOVED

Month Day Year

Inches

Month Day Year

1.

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D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

$$A. \text{ Dry Tons} = \frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$$

$$B. \text{ Dry Tons} = \frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$$

$$y = \begin{aligned} &= 1.185 \text{ where solid content is less than 15\%} \\ &= 1.265 \text{ where solid content is 16\% to 23\%} \\ &= 1.58 \text{ where solid content is 24\% to 29\%} \\ &= 1.9 \text{ where solid content is greater than 30\%} \end{aligned}$$

$$C. \text{ Dry Tons} = \text{Tons (wet)} \times \text{Solid Content (of the wet tons)}$$

$$D. \text{ Volatile Solids Reduction} = \frac{\text{VS before} \times \text{VS after}}{\text{VS before} - (\text{VS before} \times \text{VS after})} \times 100$$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

$$\begin{aligned} 1\% \text{ Total Solids} &= .01 \\ 20\% \text{ Total Solids} &= .20 \end{aligned}$$

Alternative equations may be utilized if approved in writing by NJDEP.

946430049

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

0 4

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge

PARAMETER

STORET CODE

TOTAL PHASE (dry weight basis,

NONE DETECTED

Metals

Arsenic	01002	2 9 3	
Beryllium	01012	0 8 5	*
Cadmium	61527	1 9 1 5	
Chromium	61512	6 1 1 4 0	
Copper	61506	1 6 0 1	
Iron	01045	1 0 1 4 0	
Lead	61503	4 8 4 5	
Mercury	01260	2 3 3	
Molybdenum	01062	1 9 8	
Nickel	61515	8 6 2 0	3
Selenium	61518	3 5 3	
Zinc	61509	1 1 3 1	


Selected Chemical

Total Nitrogen	00625	6 8 6 0 3	
Ammonia Nitrogen	71845	2 3 3 2	
Nitrate Nitrogen	71850	3 9 0	
Oil and Grease	00550	1 7 0 5 5 6	
Phenols	46000	1 2 3 8 8	
Phosphorus	00665	1 2 0 0 0	
Calcium	00916	1 6 3 3 8	
Magnesium	00927	3 0 8 6	
Potassium	00937	1 0 4 0	
Cyanide	00720	6 2 8	
Fluoride	00951	1 1 8	
Chloride	00940	4 0	*

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)

Chief Chemist
Title


Signature

6/18/93
Date

Laboratory Name: Passaic Valley Sewerage Commissioners Cert No. 07407

946430050

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

0 5 1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETER

STORET
CODE

TOTAL PHASE
(dry weight basis,

NONE
DETECTED

Pesticides and

Aldrin	39330	0 0 8 7	*
Chlordane	39350	1 2 4	*
Dieldrin	39380	0 0 9 9	*
DDT	39370	0 5 2 2	*
Heptachlor	39410	0 0 3 7	*
Lindane	39782	0 1 2 2	*
PCB's	39516	6 2 2	*
Toxaphene	39400	1 2 4	*

Purgeables

Benzene	34030	0 1 3 0	
Carbon tetrachloride	32102	0 0 4 1	*
Chloroform	32106	0 0 4 1	*
Methylene Chloride	34423	0 0 4 1	*
Tetrachloroethylene	34475	0 1 2 0	*
Trichloroethylene	39180	0 0 4 1	*
Vinyl chloride	39175	0 0 8 2	*

Base/Neutrals and Acids

Benzidine	39120	1 6 3	*
Benzo(a)pyrene	34247	0 3 2 6	*
Bis(2-ethylhexyl) phthalate	39100	1 4 9	
Hexachlorobenzene	39700	0 3 2 6	*
Hexachlorobutadiene	39702	0 3 2 6	*
N-nitrosodimethylamine	34438	0 6 5 2	*

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)

Chief Chemist, PVSC
Title

Arthur A. Martinelli
Signature

6/18/93
Date

Laboratory Name: Priority One Testing Laboratory

Cert No. 09399

946430051

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

946430052

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

Mo.
0 5Yr.
1 9 9 3

5 1

Page 2 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	3 0 9 7

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	4 6 6
2. Average Daily Sludge Production	(Gallons/Day)	B2:	3 9 2 8 4
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	7 6 2 3

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed			
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day)	C2:	
2. Complete ONLY If Dewatered Sludge Is Removed			
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	4 6 6
b. Complete ONE of the following:			
i. Average Daily Sludge Removal	(Gallons/Day)	C4:	
Total Solids of 2.b.i.	(% by weight)	C5:	
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	1 6 3 7
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	7 6 2 3
4. pH of Sludge Removed	(Standard Units)	C9:	1 1 3


D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
D	PASSAIC VALLEY	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist
Title
Signature 6/21/93
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430053

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion; or

B. Aerobic Digestion; complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

b. After Stabilization (as weight % of TS)

c. Percent Reduction (see equation)

2. Detention Time (Days)

3. Average Temperature (Degrees C)

UNIT 1

UNIT 2

UNIT 3

| | . |

| | . |

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C. Air Drying (Report on any beds emptied for the report period)

BED

DATE SLUDGE LOADED

DEPTH POURED

DATE SLUDGE REMOVED

Month Day Year

Inches

Month Day Year

1.

| | | | | |

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| | | | | |

2.

| | | | | |

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3.

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4.

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5.

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D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

$$A. \text{ Dry Tons} = \frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$$

$$B. \text{ Dry Tons} = \frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$$

$$y = 1.185 \text{ where solid content is less than 15\%}$$

$$= 1.265 \text{ where solid content is 16\% to 23\%}$$

$$= 1.58 \text{ where solid content is 24\% to 29\%}$$

$$= 1.9 \text{ where solid content is greater than 30\%}$$

$$C. \text{ Dry Tons} = \text{Tons (wet)} \times \text{Solid Content (of the wet tons)}$$

$$D. \text{ Volatile Solids Reduction} = \frac{\text{VS before} \times \text{VS after}}{\text{VS before} - (\text{VS before} \times \text{VS after})} \times 100$$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

$$1\% \text{ Total Solids} = .01$$

$$20\% \text{ Total Solids} = .20$$

Alternative equations may be utilized if approved in writing by NJDEP.

946430054

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

0 4

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge**PARAMETER****STORET
CODE****TOTAL PHASE
(dry weight basis,****NONE
DETECTED****Metals**

Arsenic	01002					1	8	0	
Beryllium	01012					0	6	4	*
Cadmium	61527					1	1	1	0
Chromium	61512				2	4	1	7	0
Copper	61506				5	6	7	5	5
Iron	01045				3	1	3	0	
Lead	61503				2	4	1	5	
Mercury	01260					0	8	2	
Molybdenum	01062					1	8	9	
Nickel	61515					4	6	7	5
Selenium	61518					2	1	9	
Zinc	61509				4	8	9		

Selected Chemical

Total Nitrogen	00625	1	2	5	0	5	4		
Ammonia Nitrogen	71845			2	6	4	4		
Nitrate Nitrogen	71850						3	8	0
Oil and Grease	00550			4	8	0	4	3	
Phenols	46000					1	1	2	7
Phosphorus	00665				5	2	5	0	
Calcium	00916	1	2	9	5	0	0		
Magnesium	00927			2	1	6	0		
Potassium	00937			1	0	1	9		
Cyanide	00720					2	3	8	7
Fluoride	00951					2	6	8	
Chloride	00940			1	0	9	0	0	

CERTIFICATE OF AUTHENTICITYArthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist
Title
Signature6/18/93
DateLaboratory Name: Passaic Valley Sewerage CommissionersCert No. 07407

946430055

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

0 5 1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER

STORET
CODETOTAL PHASE
(dry weight basis,NONE
DETECTEDPesticides and

Aldrin	39330	0 0 0 7
Chlordane	39350	0 1 0 7
Dieldrin	39380	0 0 0 9
DDT	39370	0 0 4 5
Heptachlor	39410	0 0 0 3
Lindane	39782	0 0 1 0
PCB's	39516	0 5 3 5
Toxaphene	39400	1 0 7

*
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*
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*
*
*Purgeables

Benzene	34030	0 0 5 6
Carbon tetrachloride	32102	0 0 5 6
Chloroform	32106	0 0 5 6
Methylene Chloride	34423	0 0 5 6
Tetrachloroethylene	34475	0 1 5 3
Trichloroethylene	39180	0 0 5 6
Vinyl chloride	39175	0 1 2 2

*
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*
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*
*
*Base/Neutrals and Acids

Benzidine	39120	0 3 6 9
Benzo(a)pyrene	34247	0 0 7 4
Bis(2-ethylhexyl) phthalate	39100	2 9 5
Hexachlorobenzene	39700	0 0 7 4
Hexachlorobutadiene	39702	0 0 7 4
N-nitrosodimethylamine	34438	0 1 4 8

*
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*
*
*
*
*
*CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Name of Authorized Agent (Print)

Chief Chemist, PVSC

Title

Signature

6/18/93
DateLaboratory Name: Priority One Testing LaboratoryCert No. 09399

946430056

MONITORING REPORT - TRANSMITTAL SHEET

Page 1 of 1

NJPDES NO.

REPORTING PERIOD

MO. YR.

MO. YR.

0021016

0693 THRU 0693

PERMITTEE:

Name Passaic Valley Sewerage Commissioners

Address 600 Wilson Avenue

Newark, New Jersey 07105

FACILITY:

Name Passaic Valley Sewerage Commissioners

Address 600 Wilson Avenue

Newark, N.J. 07105

(County)

Essex

Telephone (201) 344-1800

FORMS ATTACHED (Indicate Quantity of Each)

SLUDGE REPORTS - SANITARY

☒ 1 T-VWX-007 ☒ 1 T-VWX-008 ☒ 1 T-VWX-009

SLUDGE REPORTS - INDUSTRIAL

☐ T-VWX-010A ☐ T-VWX-010B

WASTEWATER REPORTS

☐ T-VWX-011 ☐ T-VWX-012 ☐ T-VWX-013

GROUNDWATER REPORTS

☐ VWX-015(A,B) ☐ VWX-016 ☐ VWX-017

NPDES DISCHARGE MONITORING REPORT

☐ EPA FORM 3320-1

OPERATING EXCEPTIONS

	YES	NO
DYE TESTING	<input type="checkbox"/>	<input type="checkbox"/>
TEMPORARY BYPASSING	<input type="checkbox"/>	<input type="checkbox"/>
DISINFECTION INTERRUPTION	<input type="checkbox"/>	<input type="checkbox"/>
MONITORING MALFUNCTIONS	<input type="checkbox"/>	<input type="checkbox"/>
UNITS OUT OF OPERATION	<input type="checkbox"/>	<input type="checkbox"/>
OTHER	<input type="checkbox"/>	<input type="checkbox"/>

(Detail any "Yes" on reverse side in appropriate space.)

NOTE: The "Hours Attended at Plant" on the reverse of this sheet must also be completed.

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR

Name (Printed) Phil Habrukowich

Grade & Registry No. NJ S-4 #3972

Signature [Signature]

Date 7/23/93

**PRINCIPAL EXECUTIVE OFFICER or
DULY AUTHORIZED REPRESENTATIVE**

Name (Printed) Carmine T. Perrapato

Title (Printed) Executive Director

Signature [Signature]

Date 7/23/93

946430057

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which originated from our Zimpro process.

946430058

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

0 6

1 9 9 3

5

1

Page 1 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	3 0 6 7

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	5 9 8
2. Average Daily Sludge Production	(Gallons/Day)	B2:	3 1 0 9 4
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	7 7 5 1

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed			
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day)	C2:	
2. Complete ONLY If Dewatered Sludge Is Removed			
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	5 9 8
b. Complete ONE of the following:			
i. Average Daily Sludge Removal	(Gallons/Day)	C4:	
Total Solids of 2.b.i.	(% by weight)	C5:	
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	1 2 9 6
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	7 7 5 1
4. pH of Sludge Removed	(Standard Units)	C9:	5 7

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
E	PASSAIC VALLEY	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist
Title

Signature

July 13, 1993
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430059

946430060

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

0 5

1 9 9 3

5

2

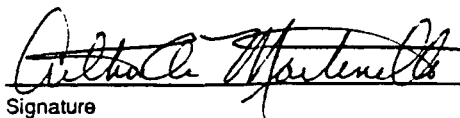
FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge**PARAMETER****STORET
CODE****TOTAL PHASE
(dry weight basis,****NONE
DETECTED****Metals**

Arsenic	01002					2	2	4	
Beryllium	01012					0	1	8	
Cadmium	61527				2	0	4	5	
Chromium	61512			6	3	9	1	5	
Copper	61506		1	6	5	7			
Iron	01045		1	0	7	0	0		
Lead	61503			3	8	2			
Mercury	01260					2	6	9	
Molybdenum	01062					5	6	0	
Nickel	61515				9	1	5	5	
Selenium	61518					2	8		
Zinc	61509		1	3	9	6			

*
*
*
*

Selected Chemical

Total Nitrogen	00625		6	1	3	9	9		
Ammonia Nitrogen	71845			1	1	4	0		
Nitrate Nitrogen	71850					6	2	0	
Oil and Grease	00550	1	6	8	3	0	9		
Phenols	46000				7	4	1	4	
Phosphorus	00665		2	7	0	0	0		
Calcium	00916		1	5	2	4	4		
Magnesium	00927			3	0	8	2		
Potassium	00937				7	0	0		
Cyanide	00720					1	2	5	
Fluoride	00951					9	7	7	
Chloride	00940				1	3	1		

CERTIFICATE OF AUTHENTICITYArthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist
Title
SignatureJuly 14, 1993
DateLaboratory Name: Passaic Valley Sewerage CommissionersCert No. 07407

946430061

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

0 6 1 9 9 3

5 2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) SludgePARAMETER
Pesticides andSTORET
CODETOTAL PHASE
(dry weight basis,NONE
DETECTED

Aldrin	39330	0 1 0 9	*
Chlordane	39350	1 5 5	*
Dieldrin	39380	0 1 2 4	*
DDT	39370	0 6 5 2	*
Heptachlor	39410	0 0 4 7	*
Lindane	39782	0 1 4 0	*
PCB's	39516	7 7 6	*
Toxaphene	39400	1 5 5	*

Purgeables

Benzene	34030	0 0 3 9	*
Carbon tetrachloride	32102	0 0 3 9	*
Chloroform	32106	0 0 3 9	*
Methylene Chloride	34423	0 0 3 9	*
Tetrachloroethylene	34475	0 0 9 6	*
Trichloroethylene	39180	0 0 3 9	*
Vinyl chloride	39175	0 0 7 7	*

Base/Neutrals and Acids

Benzidine	39120	3 4 3	*
Benzo(a)pyrene	34247	6 8 6	*
Bis(2-ethylhexyl) phthalate	39100	1 8 2	*
Hexachlorobenzene	39700	6 8 6	*
Hexachlorobutadiene	39702	6 8 6	*
N-nitrosodimethylamine	34438	1 3 7	*

CERTIFICATE OF AUTHENTICITYArthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist, PVSC
Title
SignatureJuly 13, 1993
DateLaboratory Name: Priority One Testing LaboratoryCert No. 09399

346430062

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

Mo. 0 6

Yr. 1 9 9 3

5

1

Page 2 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	3 0 6 7

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	4 6 4
2. Average Daily Sludge Production	(Gallons/Day)	B2:	7 9 9 6 2
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	1 5 4 4 5

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed			
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day)	C2:	
2. Complete ONLY If Dewatered Sludge Is Removed			
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	4 6 4
b. Complete ONE of the following:			
i. Average Daily Sludge Removal	(Gallons/Day)	C4:	
Total Solids of 2.b.i.	(% by weight)	C5:	
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	3 3 3 2
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	1 5 4 4 5
4. pH of Sludge Removed	(Standard Units)	C9:	1 1 0

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
D	PASSAIC VALLEY	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist
Title
SignatureJuly 13, 1993
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430064

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion; or

B. Aerobic Digestion; complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

UNIT 1

UNIT 2

UNIT 3

____ . ____

____ . ____

____ . ____

b. After Stabilization (as weight % of TS)

____ . ____

____ . ____

____ . ____

c. Percent Reduction (see equation)

____ . ____

____ . ____

____ . ____

2. Detention Time (Days)

____ | ____ | ____

____ | ____ | ____

____ | ____ | ____

3. Average Temperature (Degrees C)

____ . ____

____ . ____

____ . ____

C. Air Drying (Report on any beds emptied for the report period)

BED

DATE SLUDGE LOADED

DEPTH POURED

DATE SLUDGE REMOVED

Month Day Year

Inches

Month Day Year

1.

____ | ____ | ____ | ____ | ____ | ____

____ | ____

____ | ____ | ____ | ____ | ____ | ____

2.

____ | ____ | ____ | ____ | ____ | ____

____ | ____

____ | ____ | ____ | ____ | ____ | ____

3.

____ | ____ | ____ | ____ | ____ | ____

____ | ____

____ | ____ | ____ | ____ | ____ | ____

4.

____ | ____ | ____ | ____ | ____ | ____

____ | ____

____ | ____ | ____ | ____ | ____ | ____

5.

____ | ____ | ____ | ____ | ____ | ____

____ | ____

____ | ____ | ____ | ____ | ____ | ____

D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

A. Dry Tons = $\frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$

B. Dry Tons = $\frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$

y = 1.185 where solid content is less than 15%

= 1.265 where solid content is 16% to 23%

= 1.58 where solid content is 24% to 29%

= 1.9 where solid content is greater than 30%

C. Dry Tons = Tons (wet) X Solid Content (of the wet tons)

D. Volatile Solids Reduction = $\frac{\text{VS before} - \text{VS after}}{\text{VS before} - (\text{VS before} \times \text{VS after})} \times 100$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

1% Total Solids = .01

20% Total Solids = .20

Alternative equations may be utilized if approved in writing by NJDEP.

946430065

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

0 5 1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge**PARAMETER****STORET
CODE****TOTAL PHASE
(dry weight basis,****NONE
DETECTED****Metals**

Arsenic	01002					2	9	9	
Beryllium	01012					0	1	5	
Cadmium	61527					9	8	0	
Chromium	61512			1	8	2	4	0	
Copper	61506			4	2	8			
Iron	01045		2	6	3	0			
Lead	61503			1	5	4			
Mercury	01260					1	1	1	
Molybdenum	01062					7	4	6	
Nickel	61515			4	1	4	0		
Selenium	61518					3	8		
Zinc	61509			4	5	2			

*
*
*
*

Selected Chemical

Total Nitrogen	00625		9	8	1	9	3		
Ammonia Nitrogen	71845			1	5	2	8		
Nitrate Nitrogen	71850					1	5	2	
Oil and Grease	00550		2	5	7	5	1		
Phenols	46000					9	4	4	
Phosphorus	00665		4	8	3	0			
Calcium	00916	1	2	9	3	7	5		
Magnesium	00927			3	0	3	5		
Potassium	00937				7	6	4		
Cyanide	00720					2	0	1	
Fluoride	00951					2	1	7	
Chloride	00940			3	3	0	0		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Chief Chemist

Name of Authorized Agent (Print)

Title


SignatureJuly 14, 1993
DateLaboratory Name: Passaic Valley Sewerage CommissionersCert No. 07407

946430066

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

0 6

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER

STORET
CODETOTAL PHASE
(dry weight basis,NONE
DETECTEDPesticides and

Aldrin	39330	0 0 0 7
Chlordane	39350	0 1 0 4
Dieldrin	39380	0 0 0 8
DDT	39370	0 0 4 4
Heptachlor	39410	0 0 0 3
Lindane	39782	0 0 0 9
PCB's	39516	0 5 2 2
Toxaphene	39400	1 0 4

*
*
*
*
*
*
*
*Purgeables

Benzene	34030	1 4 3
Carbon tetrachloride	32102	1 4 3
Chloroform	32106	1 4 3
Methylene Chloride	34423	1 4 3
Tetrachloroethylene	34475	1 4 3
Trichloroethylene	39180	1 4 3
Vinyl chloride	39175	2 8 6

*
*
*
*
*
*
*Base/Neutrals and Acids

Benzidine	39120	4 4 9
Benzo(a)pyrene	34247	0 8 9 8
Bis(2-ethylhexyl) phthalate	39100	6 4 1
Hexachlorobenzene	39700	0 8 9 8
Hexachlorobutadiene	39702	0 8 9 8
N-nitrosodimethylamine	34438	1 8 0

*
*

*
*
*

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Name of Authorized Agent (Print)

Chief Chemist, PVSC

Title

Signature

July 13, 1993

Date

Laboratory Name: Priority One Testing LaboratoryCert No. 09399

946430067

MONITORING REPORT - TRANSMITTAL SHEET

NJPDES NO.

REPORTING PERIOD

MO. YR.

MO. YR.

01012110116

01793 THRU 01793

PERMITTEE:

Name Passaic Valley Sewerage Commissioners

Address 600 Wilson Avenue

Newark, New Jersey 07105

FACILITY:

Name Passaic Valley Sewerage Commissioners

Address 600 Wilson Avenue

Newark, N.J. 07105 (County) Essex

Telephone (201) 344-1800

* For reporting period 7/93

** For reporting period 6/93 & 7/93

FORMS ATTACHED (Indicate Quantity of Each)

SLUDGE REPORTS - SANITARY

☒ 1 T-VWX-007 ☒ 2 T-VWX-008 ☒ 1 T-VWX-009
* ** *

SLUDGE REPORTS - INDUSTRIAL

☐ T-VWX-010A ☐ T-VWX-010B

WASTEWATER REPORTS

☐ T-VWX-011 ☐ T-VWX-012 ☐ T-VWX-013

GROUNDWATER REPORTS

☐ VWX-015(A,B) ☐ VWX-016 ☐ VWX-017

NPDES DISCHARGE MONITORING REPORT

☐ EPA FORM 3320-1

OPERATING EXCEPTIONS

	YES	NO
DYE TESTING	<input type="checkbox"/>	<input type="checkbox"/>
TEMPORARY BYPASSING	<input type="checkbox"/>	<input type="checkbox"/>
DISINFECTION INTERRUPTION	<input type="checkbox"/>	<input type="checkbox"/>
MONITORING MALFUNCTIONS	<input type="checkbox"/>	<input type="checkbox"/>
UNITS OUT OF OPERATION	<input type="checkbox"/>	<input type="checkbox"/>
OTHER	<input type="checkbox"/>	<input type="checkbox"/>

(Detail any "Yes" on reverse side in appropriate space.)

NOTE: The "Hours Attended at Plant" on the reverse of this sheet must also be completed.

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR

Name (Printed) Phil Habrukowich

Grade & Registry No. NJ S-4 #3972

Signature [Signature]

PRINCIPAL EXECUTIVE OFFICER or DULY AUTHORIZED REPRESENTATIVE

Name (Printed) Carmine T. Perrapato

Title (Printed) Executive Director

me

946430068

8/24/93

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

DANIEL F. BECHT
ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which originated from our Zimpro process.

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

Mo. 0 7

Yr. 1 9 9 3

5 1

Page 1 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	2 3 5 5

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	5 9 7
2. Average Daily Sludge Production	(Gallons/Day)	B2:	2 4 8 8 0
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	6 1 8 5

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed			
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day)	C2:	
2. Complete ONLY If Dewatered Sludge Is Removed			
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	5 9 7
b. Complete ONE of the following:			
i. Average Daily Sludge Removal	(Gallons/Day)	C4:	
Total Solids of 2.b.i.	(% by weight)	C5:	
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	1 0 3 7
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	6 1 8 5
4. pH of Sludge Removed	(Standard Units)	C9:	5 5

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
E	PASSAIC VALLEY	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)

Chief Chemist
Title

Arthur A. Martinelli
Signature

AUG 10, 1993
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430070

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion: or

B. Aerobic Digestion: complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

UNIT 1

UNIT 2

UNIT 3

____ . ____

____ . ____

____ . ____

b. After Stabilization (as weight % of TS)

____ . ____

____ . ____

____ . ____

c. Percent Reduction (see equation)

____ . ____

____ . ____

____ . ____

2. Detention Time (Days)

____ | ____ | ____

____ | ____ | ____

____ | ____ | ____

3. Average Temperature (Degrees C)

____ . ____

____ . ____

____ . ____

C. Air Drying (Report on any beds emptied for the report period)

BED

DATE SLUDGE LOADED

DEPTH POURED

DATE SLUDGE REMOVED

Month Day Year

Inches

Month Day Year

1.

____ | ____ | ____ | ____ | ____ | ____

____ | ____

____ | ____ | ____ | ____ | ____ | ____

2.

____ | ____ | ____ | ____ | ____ | ____

____ | ____

____ | ____ | ____ | ____ | ____ | ____

3.

____ | ____ | ____ | ____ | ____ | ____

____ | ____

____ | ____ | ____ | ____ | ____ | ____

4.

____ | ____ | ____ | ____ | ____ | ____

____ | ____

____ | ____ | ____ | ____ | ____ | ____

5.

____ | ____ | ____ | ____ | ____ | ____

____ | ____

____ | ____ | ____ | ____ | ____ | ____

D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge. Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

A. Dry Tons = $\frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$

B. Dry Tons = $\frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$

y = 1.185 where solid content is less than 15%

= 1.265 where solid content is 16% to 23%

= 1.58 where solid content is 24% to 29%

= 1.9 where solid content is greater than 30%

C. Dry Tons = Tons (wet) X Solid Content (of the wet tons)

D. Volatile Solids Reduction = $\frac{\text{VS before} \times \text{VS after}}{\text{VS before} - (\text{VS before} \times \text{VS after})} \times 100$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

1% Total Solids = .01

20% Total Solids = .20

Alternative equations may be utilized if approved in writing by NJDEP.

946430071

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

0 6 1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge**PARAMETER****STORET
CODE****TOTAL PHASE
(dry weight basis,****NONE
DETECTED****Metals**

Arsenic	01002					2	7	7	*
Beryllium	01012					0	7	0	*
Cadmium	61527				2	7	9	0	
Chromium	61512			7	3	3	3	5	
Copper	61506		1	7	2	8			
Iron	01045		1	1	4	0	0		
Lead	61503			7	9	7			
Mercury	01260					2	7	4	
Molybdenum	01062				2	0	4		
Nickel	61515			1	1	8	5	5	
Selenium	61518					5	5	3	*
Zinc	61509		2	1	6	3			

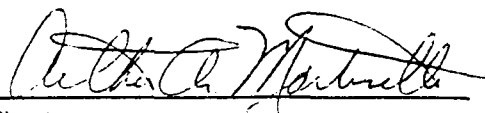
Selected Chemical

Total Nitrogen	00625		1	2	7	6	6		
Ammonia Nitrogen	71845				8	3	3		
Nitrate Nitrogen	71850					2	1	0	
Oil and Grease	00550	1	7	1	4	0	5		
Phenols	46000				6	0	3		
Phosphorus	00665		1	7	5	0	0		
Calcium	00916		1	6	3	8	1		
Magnesium	00927			3	7	0	2		
Potassium	00937				7	4	5		
Cyanide	00720					5	8	5	
Fluoride	00951				1	3	1		
Chloride	00940				6	3	6		

CERTIFICATE OF AUTHENTICITYArthur A. MartinelliChief Chemist

Name of Authorized Agent (Print)

Title


SignatureJUL 9, 1993
DateLaboratory Name: Passaic Valley Sewerage CommissionersCert No. 07407

946430072

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

0 7 1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge**PARAMETER****STORET
CODE****TOTAL PHASE
(dry weight basis,****NONE
DETECTED****Metals**

Arsenic	01002	3 1 3	
Beryllium	01012	0 5 9	
Cadmium	61527	3 3 3 5	
Chromium	61512	5 6 7 2 5	
Copper	61506	1 6 5 3	
Iron	01045	1 2 2 0 0	
Lead	61503	7 1 4 5	
Mercury	01260	2 4 1	
Molybdenum	01062	1 5 5	
Nickel	61515	9 8 6	
Selenium	61518	1 6 9	
Zinc	61509	2 6 3 9	

Selected Chemical


Total Nitrogen	00625	1 2 5 6 3	
Ammonia Nitrogen	71845	2 2 1	
Nitrate Nitrogen	71850	2 9 2	
Oil and Grease	00550	1 5 1 5 9 1	
Phenols	46000	6 7 4	
Phosphorus	00665	1 9 9 0 0	
Calcium	00916	1 4 3 0 0	
Magnesium	00927	4 4 9 9	
Potassium	00937	1 1 6 9	
Cyanide	00720	6 2 8	
Fluoride	00951	1 3 6	
Chloride	00940	8 3 0	*

CERTIFICATE OF AUTHENTICITYArthur A. Martinelli

Name of Authorized Agent (Print)

Chief Chemist

Title



Signature

AUG 24, 1993
Date
Laboratory Name: Passaic Valley Sewerage CommissionersCert No. 07407**946430074**

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

0 7

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETER

STORET
CODE

TOTAL PHASE
(dry weight basis,

NONE
DETECTED

Pesticides and

Aldrin

39330

1 4 8

*

Chlordane

39350

2 1 1

*

Dieldrin

39380

1 6 9

*

DDT

39370

8 8 6

*

Heptachlor

39410

0 6 3 2

*

Lindane

39782

1 9 0

*

PCB's

39516

1 0 5

*

Toxaphene

39400

2 1 1

*

Purgeables

Benzene

34030

0 1 4 0

Carbon tetrachloride

32102

0 0 4 1

*

Chloroform

32106

0 0 4 1

*

Methylene Chloride

34423

0 0 6 2

Tetrachloroethylene

34475

0 0 8 3

Trichloroethylene

39180

0 0 4 1

*

Vinyl chloride

39175

0 0 8 2

*

Base/Neutrals and Acids

Benzidine

39120

1 4 5

*

Benzo(a)pyrene

34247

2 9 0

*

Bis(2-ethylhexyl) phthalate

39100

6 8 5

Hexachlorobenzene

39700

2 9 0

*

Hexachlorobutadiene

39702

2 9 0

*

N-nitrosodimethylamine

34438

5 8 0

*

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Chief Chemist, PVSC

Name of Authorized Agent (Print)

Title

Signature

Aug 6, 1993
Date

Laboratory Name: Priority One Testing Laboratory

Cert No. 09399

946430075

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

DANIEL F. BECHT
ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

946430076

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

Mo. Yr.
0 7 1 9 9 3

5 1

Page 2 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	2 3 5 5

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	5 0 7
2. Average Daily Sludge Production	(Gallons/Day)	B2:	5 4 6 3 6
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	1 1 5 5 2

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed		
a. Total Solids of Liquid Sludge	(% by weight)	C1:
b. Average Daily Sludge Removal	(Gallons/Day)	C2:
2. Complete ONLY If Dewatered Sludge Is Removed		
a. Total Solids of Dewatered Sludge	(% by weight)	C3:
b. Complete ONE of the following:		
i. Average Daily Sludge Removal	(Gallons/Day)	C4:
Total Solids of 2.b.i.	(% by weight)	C5:
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:
4. pH of Sludge Removed	(Standard Units)	C9:

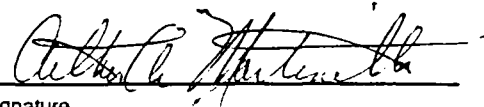
D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
D	P A S S A I C V A L L E Y	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist
Title
SignatureAUG 10, 1993
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

346430077

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion; or

B. Aerobic Digestion; complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

b. After Stabilization (as weight % of TS)

c. Percent Reduction (see equation)

2. Detention Time (Days)

3. Average Temperature (Degrees C)

UNIT 1

UNIT 2

UNIT 3

UNIT 1

UNIT 2

UNIT 3

UNIT 1

UNIT 2

UNIT 3

UNIT 1

UNIT 2

UNIT 3

UNIT 1

UNIT 2

UNIT 3

UNIT 1

UNIT 2

UNIT 3

C. Air Drying (Report on any beds emptied for the report period)

BED

DATE SLUDGE LOADED

DEPTH POURED

DATE SLUDGE REMOVED

Month Day Year

Inches

Month Day Year

1.

2.

3.

4.

5.

D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

A. Dry Tons = $\frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$

B. Dry Tons = $\frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$

y = 1.185 where solid content is less than 15%
 = 1.265 where solid content is 16% to 23%
 = 1.58 where solid content is 24% to 29%
 = 1.9 where solid content is greater than 30%

C. Dry Tons = Tons (wet) X Solid Content (of the wet tons)

D. Volatile Solids Reduction = $\frac{\text{VS before} \times \text{VS after}}{\text{VX before} - (\text{VS before} \times \text{VS after})} \times 100$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

1% Total Solids = .01
 20% Total Solids = .20

Alternative equations may be utilized if approved in writing by NJDEP.

946430078

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

0 6

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge**PARAMETER****STORET
CODE****TOTAL PHASE
(dry weight basis,****NONE
DETECTED****Metals**

Arsenic	01002						1	9	6	
Beryllium	01012						0	3	6	*
Cadmium	61527					1	1	1	5	
Chromium	61512				1	5	0	7	0	
Copper	61506				4	7	6	0	5	
Iron	01045				3	7	0	6		
Lead	61503				2	8	1			
Mercury	01260						1	1	5	
Molybdenum	01062					4	6	3		
Nickel	61515					6	1	3	5	
Selenium	61518						2	8	3	*
Zinc	61509				7	0	2			

Selected Chemical

Total Nitrogen	00625			2	0	8	4	4		
Ammonia Nitrogen	71845				1	3	9	0		
Nitrate Nitrogen	71850						1	5	6	
Oil and Grease	00550		1	5	1	9	4	0		
Phenols	46000						4	9	1	
Phosphorus	00665				5	7	5	0		
Calcium	00916		1	8	3	3	7	5		
Magnesium	00927				2	4	0	9		
Potassium	00937				1	2	8	6		
Cyanide	00720						2	3	4	5
Fluoride	00951						4	5	7	
Chloride	00940				3	5	5	0		

CERTIFICATE OF AUTHENTICITYArthur A. Martinelli

Name of Authorized Agent (Print)

Chief Chemist

Title


Signature— JUL 9, 1993
DateLaboratory Name: Passaic Valley Sewerage CommissionersCert No. 07407

946430079

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

0 7

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge**PARAMETER****STORET
CODE****TOTAL PHASE
(dry weight basis,****NONE
DETECTED****Metals**

Arsenic	01002					1	9	4	
Beryllium	01012					0	1	5	
Cadmium	61527				1	0	4	0	
Chromium	61512			1	2	0	1	0	
Copper	61506			3	4	2	9	5	
Iron	01045		2	8	1	0			
Lead	61503			1	8	1			
Mercury	01260					0	6	0	
Molybdenum	01062				3	2	1		
Nickel	61515				4	5	4	5	
Selenium	61518					2	9	5	
Zinc	61509			7	0	3	5		

Selected Chemical


Total Nitrogen	00625		2	8	8	2	0		
Ammonia Nitrogen	71845				2	0	8		
Nitrate Nitrogen	71850				1	5	4	0	
Oil and Grease	00550		3	5	5	0	3		
Phenols	46000					8	5	6	
Phosphorus	00665			6	3	6	0		
Calcium	00916	2	4	1	4	3	8		
Magnesium	00927			3	3	2	3		
Potassium	00937			1	4	4	4		
Cyanide	00720					1	9	2	3
Fluoride	00951					2	1	2	
Chloride	00940			3	8	6	0		

CERTIFICATE OF AUTHENTICITYArthur A. Martinelli

Name of Authorized Agent (Print)

Chief Chemist

Title


SignatureAUG 24, 1993
DateLaboratory Name: Passaic Valley Sewerage CommissionersCert No. 07407

946430080

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

0 7

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge**PARAMETER****STORET
CODE****TOTAL PHASE
(dry weight basis,****NONE
DETECTED****Pesticides and**

Aldrin

39330

0 1 5 9

*

Chlordane

39350

2 2 7

*

Dieldrin

39380

0 1 8 1

*

DDT

39370

0 9 5 2

*

Heptachlor

39410

0 0 6 8

*

Lindane

39782

0 2 0 4

*

PCB's

39516

1 1 3

*

Toxaphene

39400

2 2 7

*

Purgeables

Benzene

34030

1 9 9

*

Carbon tetrachloride

32102

1 9 9

*

Chloroform

32106

1 9 9

*

Methylene Chloride

34423

1 9 9

*

Tetrachloroethylene

34475

1 9 9

*

Trichloroethylene

39180

1 9 9

*

Vinyl chloride

39175

3 9 7

*

Base/Neutrals and Acids

Benzidine

39120

2 0 6

*

Benzo(a)pyrene

34247

0 4 1 2

*

Bis(2-ethylhexyl) phthalate

39100

1 8 0

*

Hexachlorobenzene

39700

0 4 1 2

*

Hexachlorobutadiene

39702

0 4 1 2

*

N-nitrosodimethylamine

34438

0 8 2 4

*

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Chief Chemist, PVSC

Name of Authorized Agent (Print)

Title

Signature

- Aug 6, 1993

Date

Laboratory Name: Priority One Testing LaboratoryCert No. 09399

946430081

MONITORING REPORT - TRANSMITTAL SHEET

Page 1 of 1

NJPDES NO.

REPORTING PERIOD

MO. YR.

MO. YR.

0021016

0893 THRU 0893

PERMITTEE: Name Passaic Valley Sewerage Commissioners
Address 600 Wilson Avenue
Newark, New Jersey 07105

FACILITY: Name Passaic Valley Sewerage Commissioners
Address 600 Wilson Avenue
Newark, N.J. 07105 (County) Essex

Telephone (201) 344-1800

* For reporting period 8/93

FORMS ATTACHED (Indicate Quantity of Each)

SLUDGE REPORTS - SANITARY

☒ 1 T-VWX-007 ☐ T-VWX-008 ☒ 1 T-VWX-009
* *

SLUDGE REPORTS - INDUSTRIAL

☐ T-VWX-010A ☐ T-VWX-010B

WASTEWATER REPORTS

☐ T-VWX-011 ☐ T-VWX-012 ☐ T-VWX-013

GROUNDWATER REPORTS

☐ VWX-015(A,B) ☐ VWX-016 ☐ VWX-017

NJPDES DISCHARGE MONITORING REPORT

☐ EPA FORM 3320-1OPERATING EXCEPTIONS

	YES	NO
DYE TESTING	<input type="checkbox"/>	<input type="checkbox"/>
TEMPORARY BYPASSING	<input type="checkbox"/>	<input type="checkbox"/>
DISINFECTION INTERRUPTION	<input type="checkbox"/>	<input type="checkbox"/>
MONITORING MALFUNCTIONS	<input type="checkbox"/>	<input type="checkbox"/>
UNITS OUT OF OPERATION	<input type="checkbox"/>	<input type="checkbox"/>
OTHER	<input type="checkbox"/>	<input type="checkbox"/>

(Detail any "Yes" on reverse side
in appropriate space.)**NOTE:** The "Hours Attended at Plant" on the
reverse of this sheet must also be completed.

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR

Name (Printed) Phil HabrukowichGrade & Registry No. NJ S-4 #3972Signature [Signature]Date 9/23/93PRINCIPAL EXECUTIVE OFFICER or
DULY AUTHORIZED REPRESENTATIVEName (Printed) Carmine T. PerrapatoTitle (Printed) Executive DirectorSignature [Signature]

946430082

9/28/93

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

DANIEL F. BECHT
ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. GUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

946430083

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo. Yr.

CATEGORY

0 0 2 1 0 1 6

0 8

1 9 9 3

5

1

Page 2 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	3 0 6 5

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	4 9 7
2. Average Daily Sludge Production	(Gallons/Day)	B2:	5 1 9 8 2
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	1 0 7 7 1

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed			
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day)	C2:	
2. Complete ONLY If Dewatered Sludge Is Removed			
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	4 9 7
b. Complete ONE of the following:			
i. Average Daily Sludge Removal	(Gallons/Day)	C4:	
Total Solids of 2.b.i.	(% by weight)	C5:	
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	2 1 6 6
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	1 0 7 7 1
4. pH of Sludge Removed	(Standard Units)	C9:	1 1 2

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
D	P A S S A I C V A L L E Y	0 0 2 1 0 1 6	PSRP	PFRP

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)

Chief Chemist
Title

Arthur A. Martinelli
Signature

Sep 13, 1993
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430084

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion; or

B. Aerobic Digestion; complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

UNIT 1

UNIT 2

UNIT 3

1 . .

1 . .

1 . .

b. After Stabilization (as weight % of TS)

1 . .

1 . .

1 . .

c. Percent Reduction (see equation)

1 . .

1 . .

1 . .

2. Detention Time (Days)

1 1 1

1 1 1

1 1 1

3. Average Temperature (Degrees C)

1 . .

1 . .

1 . .

C. Air Drying (Report on any beds emptied for the report period)

BED

DATE SLUDGE LOADED

DEPTH POURED

DATE SLUDGE REMOVED

Month Day Year

Inches

Month Day Year

1. 1 1 1 1 1 1 1 1 1 1

1 1

1 1 1 1 1 1 1 1 1 1

2. 1 1 1 1 1 1 1 1 1 1

1 1

1 1 1 1 1 1 1 1 1 1

3. 1 1 1 1 1 1 1 1 1 1

1 1

1 1 1 1 1 1 1 1 1 1

4. 1 1 1 1 1 1 1 1 1 1

1 1

1 1 1 1 1 1 1 1 1 1

5. 1 1 1 1 1 1 1 1 1 1

1 1

1 1 1 1 1 1 1 1 1 1

D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

A. Dry Tons = $\frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$

B. Dry Tons = $\frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$

y = 1.185 where solid content is less than 15%
 = 1.265 where solid content is 16% to 23%
 = 1.58 where solid content is 24% to 29%
 = 1.9 where solid content is greater than 30%

C. Dry Tons = Tons (wet) X Solid Content (of the wet tons)

D. Volatile Solids Reduction = $\frac{\text{VS before} - \text{VS after}}{\text{VS before} - (\text{VS before} \times \text{VS after})} \times 100$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

1% Total Solids = .01
 20% Total Solids = .20

Alternative equations may be utilized if approved in writing by NJDEP.

946430085

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

0 8

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) SludgePARAMETER
Pesticides andSTORET
CODETOTAL PHASE
(dry weight basis,NONE
DETECTED

Aldrin

39330

0 0 1 3

*

Chlordane

39350

0 1 9 2

*

Dieldrin

39380

0 0 1 5

*

DDT

39370

0 0 8 1

*

Heptachlor

39410

0 0 0 6

*

Lindane

39782

0 0 1 7

*

PCB's

39516

0 9 5 9

*

Toxaphene

39400

1 9 2

*

Purgeables

Benzene

34030

1 2 0

*

Carbon tetrachloride

32102

1 2 0

*

Chloroform

32106

1 2 0

*

Methylene Chloride

34423

1 2 0

*

Tetrachloroethylene

34475

1 2 0

*

Trichloroethylene

39180

1 2 0

*

Vinyl chloride

39175

2 4 0

*

Base/Neutrals and Acids

Benzidine

39120

1 0 0

*

Benzo(a)pyrene

34247

1 2 5

*

Bis(2-ethylhexyl) phthalate

39100

1 2 5

*

Hexachlorobenzene

39700

1 2 5

*

Hexachlorobutadiene

39702

1 2 5

*

N-nitrosodimethylamine

34438

1 2 5

*

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Name of Authorized Agent (Print)

Chief Chemist, PVSC

Title

Arthur A. Martinelli
SignatureSEP 1, 1993
DateLaboratory Name: Priority One Testing LabNo. 09399

946430086

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

DANIEL F. BECHT
ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which originated
from our Zimpro process.

946430087

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

0 8

1 9 9 3

5

1

Page 1 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	3 0 6 5

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	5 8 3
2. Average Daily Sludge Production	(Gallons/Day)	B2:	3 5 3 9 3
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	8 5 9 5

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed		
a. Total Solids of Liquid Sludge	(% by weight)	C1:
b. Average Daily Sludge Removal	(Gallons/Day)	C2:
2. Complete ONLY If Dewatered Sludge Is Removed		
a. Total Solids of Dewatered Sludge	(% by weight)	C3:
b. Complete ONE of the following:		
i. Average Daily Sludge Removal	(Gallons/Day)	C4:
Total Solids of 2.b.i.	(% by weight)	C5:
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:
4. pH of Sludge Removed	(Standard Units)	C9:

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
E	PASSAIC VALLEY	0021016		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)

Chief Chemist
Title

Arthur A. Martinelli
Signature

Sep 13, 1993
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430088

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion: or

B. Aerobic Digestion: complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

b. After Stabilization (as weight % of TS)

c. Percent Reduction (see equation)

2. Detention Time (Days)

3. Average Temperature (Degrees C)

UNIT 1

UNIT 2

UNIT 3

C. Air Drying (Report on any beds emptied for the report period)

BED

DATE SLUDGE LOADED

DEPTH POURED

DATE SLUDGE REMOVED

Month Day Year

Inches

Month Day Year

1.

2.

3.

4.

5.

D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge. Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

$$A. \text{ Dry Tons} = \frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$$

$$B. \text{ Dry Tons} = \frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$$

$$y = \begin{aligned} &= 1.185 \text{ where solid content is less than 15\%} \\ &= 1.265 \text{ where solid content is 16\% to 23\%} \\ &= 1.58 \text{ where solid content is 24\% to 29\%} \\ &= 1.9 \text{ where solid content is greater than 30\%} \end{aligned}$$

$$C. \text{ Dry Tons} = \text{Tons (wet)} \times \text{Solid Content (of the wet tons)}$$

$$D. \text{ Volatile Solids Reduction} = \frac{\text{VS before} \times \text{VS after}}{\text{VS before} - (\text{VS before} \times \text{VS after})} \times 100$$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

$$\begin{aligned} 1\% \text{ Total Solids} &= .01 \\ 20\% \text{ Total Solids} &= .20 \end{aligned}$$

Alternative equations may be utilized if approved in writing by NJDEP.

946430089

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

0 8 1 9 9 3

5 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETER Pesticides and

STORET
CODE

TOTAL PHASE
(dry weight basis,

NONE
DETECTED

Aldrin	39330	0 1 4 4	*
Chlordane	39350	1 6 3	*
Dieldrin	39380	0 1 3 1	*
DDT	39370	0 6 8 6	*
Heptachlor	39410	0 0 4 9	*
Lindane	39782	0 1 4 7	*
PCB's	39516	8 1 7	*
Toxaphene	39400	1 6 3	*

Purgeables

Benzene	34030	1 0 7	*
Carbon tetrachloride	32102	1 0 7	*
Chloroform	32106	1 0 7	*
Methylene Chloride	34423	1 0 7	*
Tetrachloroethylene	34475	1 0 7	*
Trichloroethylene	39180	1 0 7	*
Vinyl chloride	39175	2 1 4	*

Base/Neutrals and Acids

Benzidine	39120	1 3 0	*
Benzo(a)pyrene	34247	1 6 3	*
Bis(2-ethylhexyl) phthalate	39100	4 6 3	*
Hexachlorobenzene	39700	1 6 3	*
Hexachlorobutadiene	39702	1 6 3	*
N-nitrosodimethylamine	34438	1 6 3	*

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)

Chief Chemist, PVSC
Title

Arthur A. Martinelli
Signature

SEP. 1, 1993
Date

Laboratory Name: Priority One Testing Laboratory

Cert No. 09399

946430090

MONITORING REPORT - TRANSMITTAL SHEET

Page 1 of 1

NJPDES NO.

REPORTING PERIOD

MO. YR.

MO. YR.

0021016

0993 THRU 0993

PERMITTEE:

Name Passaic Valley Sewerage Commissioners
Address 600 Wilson Avenue
Newark, New Jersey 07105

FACILITY:

Name Passaic Valley Sewerage Commissioners
Address 600 Wilson Avenue
Newark, N.J. 07105 (County) Essex

Telephone (201) 344-1800

* For reporting period 9/93
** For reporting period 8/93

FORMS ATTACHED (Indicate Quantity of Each)

SLUDGE REPORTS - SANITARY

☒ 1 T-VWX-007 ☒ 1 T-VWX-008 ☒ 1 T-VWX-009
* ** *

SLUDGE REPORTS - INDUSTRIAL

☐ T-VWX-010A ☐ T-VWX-010B

WASTEWATER REPORTS

☐ T-VWX-011 ☐ T-VWX-012 ☐ T-VWX-013

GROUNDWATER REPORTS

☐ VWX-015(A,B) ☐ VWX-016 ☐ VWX-017

NJPDES DISCHARGE MONITORING REPORT

☐ EPA FORM 3320-1

OPERATING EXCEPTIONS

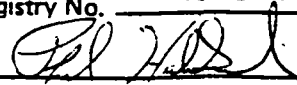
	YES	NO
DYE TESTING	<input type="checkbox"/>	<input type="checkbox"/>
TEMPORARY BYPASSING	<input type="checkbox"/>	<input type="checkbox"/>
DISINFECTION INTERRUPTION	<input type="checkbox"/>	<input type="checkbox"/>
MONITORING MALFUNCTIONS	<input type="checkbox"/>	<input type="checkbox"/>
UNITS OUT OF OPERATION	<input type="checkbox"/>	<input type="checkbox"/>
OTHER	<input type="checkbox"/>	<input type="checkbox"/>

(Detail any "Yes" on reverse side in appropriate space.)

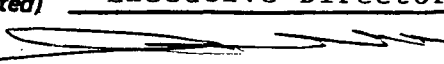
NOTE: The "Hours Attended at Plant" on the reverse of this sheet must also be completed.

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR

Name (Printed) Phil Habrukowich
Grade & Registry No. NJ S-4 #3972
Signature 
Date 10/25/93 **946430091**

PRINCIPAL EXECUTIVE OFFICER or DULY AUTHORIZED REPRESENTATIVE

Name (Printed) Carmine T. Perrapato
Title (Printed) Executive Director
Signature 
Date 10/25/93

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

DANIEL F. BECHT
ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which originated from our Zimpro process.

946430092

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

0 9 1 9 9 3

5 1

Page 1 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	2 6 6 7

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	6 3 6
2. Average Daily Sludge Production	(Gallons/Day)	B2:	3 3 6 3 9
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	8 9 0 7

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed			
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day)	C2:	
2. Complete ONLY If Dewatered Sludge Is Removed			
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	6 3 6
b. Complete ONE of the following:			
i. Average Daily Sludge Removal	(Gallons/Day)	C4:	
Total Solids of 2.b.i.	(% by weight)	C5:	
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	1 4 0 2
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	8 9 0 7
4. pH of Sludge Removed	(Standard Units)	C9:	5 9

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
E	PASSAIC VALLEY	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist
Title
SignatureOct 21, 1993
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430093

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion; or

B. Aerobic Digestion; complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

b. After Stabilization (as weight % of TS)

c. Percent Reduction (see equation)

2. Detention Time (Days)

3. Average Temperature (Degrees C)

UNIT 1

UNIT 2

UNIT 3

| | . |

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| | . |

C. Air Drying (Report on any beds emptied for the report period)

BED

DATE SLUDGE LOADED

DEPTH POURED

DATE SLUDGE REMOVED

Month Day Year

Inches

Month Day Year

1. | | | | | | | |

| |

| | | | | | | |

2. | | | | | | | |

- | |

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3. | | | | | | | |

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4. | | | | | | | |

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5. | | | | | | | |

| |

| | | | | | | |

D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

$$A. \text{ Dry Tons} = \frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$$

$$B. \text{ Dry Tons} = \frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$$

$$y = 1.185 \text{ where solid content is less than 15\%}$$

$$= 1.265 \text{ where solid content is 16\% to 23\%}$$

$$= 1.58 \text{ where solid content is 24\% to 29\%}$$

$$= 1.9 \text{ where solid content is greater than 30\%}$$

$$C. \text{ Dry Tons} = \text{Tons (wet)} \times \text{Solid Content (of the wet tons)}$$

$$D. \text{ Volatile Solids Reduction} = \frac{\text{VS before} \times \text{VS after}}{\text{VS before} - (\text{VS before} \times \text{VS after})} \times 100$$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

$$1\% \text{ Total Solids} = .01$$

$$20\% \text{ Total Solids} = .20$$

Alternative equations may be utilized if approved in writing by NJDEP.

946430094

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

0 8 1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge**PARAMETERS****STORET
CODE****TOTAL PHASE
(dry weight basis,****NONE
DETECTED****Metals**

Arsenic	01002					1	6	0	
Beryllium	01012					0	2	9	
Cadmium	61527				3	4	4		
Chromium	61512				5	9	2	9	5
Copper	61506			1	9	2	2	0	
Iron	01045		1	1	3	0	0		
Lead	61503				8	4	2		
Mercury	01260					3	8	8	
Molybdenum	01062					2	6	9	
Nickel	61515					8	8	6	
Selenium	61518					2	7	8	*
Zinc	61509			3	1	8	8	5	

Selected Chemical Parameters

Total Nitrogen	00625		1	1	6	5	4		
Ammonia	71845				8	5	6		
Nitrate Nitrogen	71850					6	3		
Oil and Grease	00550		1	6	8	0	9	6	
Phenols	46000					7	0	3	2
Phosphorus	00665			1	5	9	0	0	
Calcium	00916			1	3	6	1	9	
Magnesium	00927				3	2	2	1	
Potassium	00937					7	1	4	
Cyanide	00720						5	0	
Fluoride	00951						9	7	2
Chloride	00940					3	5	0	*

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Chief Chemist

Name of Authorized Agent (Print)

Title

Signature

Oct. 13, 1993
DateLaboratory Name: Passaic Valley Sewerage CommissionersCert No. 07407**946430095**

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

0 9

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETERS

STORET
CODETOTAL PHASE
(dry weight basis,NONE
DETECTEDPesticides and PCB's

Aldrin	39330					0	2	5	9
Chlordane	39350					3	6	9	
Dieldrin	39380					0	2	9	6
DDT	39370					1	5	5	
Heptachlor	39410					0	1	1	1
Lindane	39782					0	3	2	2
PCB's	39516					1	8	5	
Toxaphene	39400					3	6	9	

*
*
*
*
*
*
*
*

Purgeables

Benzene	34030					2	0	8	
Carbon tetrachloride	32102					2	0	8	
Chloroform	32106					2	0	8	
Methylene Chloride	34423					2	0	8	
Tetrachloroethylene	34475					2	0	8	
Trichloroethylene	39180					2	0	8	
Vinyl chloride	39175					4	1	6	

*
*
*
*
*
*
*

Base/Neutrals and Acids

Benzidine	39120					8	3	1	
Benzo(a)pyrene	34247					8	3	1	
Bis(2-ethylhexyl) phthalate	39100			1	3	5			
Hexachlorobenzene	39700					8	3	1	
Hexachlorobutadiene	39702					8	3	1	
N-nitrosodimethylamine	34438					8	3	1	

*
*
*
*
*

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Chief Chemist.

Name of Authorized Agent (Print)

Title


SignatureOct. 13, 1993
DateLaboratory Name: Priority One Testing LaboratoryCert No. 09399

946430096

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

DANIEL F. BECHT
ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

0 9

1 9 9 3

5

1

Page 2 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	2 6 6 7

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	4 5 2
2. Average Daily Sludge Production	(Gallons/Day)	B2:	7 5 1 2 8
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	1 4 1 4 3

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed			
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day)	C2:	
2. Complete ONLY If Dewatered Sludge Is Removed			
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	4 5 2
b. Complete ONE of the following:			
i. Average Daily Sludge Removal	(Gallons/Day)	C4:	
Total Solids of 2.b.i.	(% by weight)	C5:	
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	3 1 3 0
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	1 4 1 4 3
4. pH of Sludge Removed	(Standard Units)	C9:	1 1 3

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
D	PASSAIC VALLEY	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)

Chief Chemist
Title

Arthur A. Martinelli
Signature

Oct 21, 1993
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430098

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion: or

B. Aerobic Digestion: complete the following:

	UNIT 1	UNIT 2	UNIT 3
1. Percent Volatile Solids:			
a. Before Stabilization (as weight % of TS)	<input type="text"/>	<input type="text"/>	<input type="text"/>
b. After Stabilization (as weight % of TS)	<input type="text"/>	<input type="text"/>	<input type="text"/>
c. Percent Reduction (see equation)	<input type="text"/>	<input type="text"/>	<input type="text"/>
2. Detention Time (Days)	<input type="text"/>	<input type="text"/>	<input type="text"/>
3. Average Temperature (Degrees C)	<input type="text"/>	<input type="text"/>	<input type="text"/>

C. Air Drying (Report on any beds emptied for the report period)

BED	DATE SLUDGE LOADED			DEPTH POURED	DATE SLUDGE REMOVED		
	Month	Day	Year		Month	Day	Year
1.	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
2.	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
3.	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
4.	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
5.	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>

D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge. Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

A. Dry Tons = $\frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$

B. Dry Tons = $\frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$

y = 1.185 where solid content is less than 15%
 = 1.265 where solid content is 16% to 23%
 = 1.58 where solid content is 24% to 29%
 = 1.9 where solid content is greater than 30%

C. Dry Tons = Tons (wet) X Solid Content (of the wet tons)

D. Volatile Solids Reduction = $\frac{\text{VS before} \times \text{VS after}}{\text{VS before} - (\text{VS before} \times \text{VS after})} \times 100$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

1% Total Solids = .01
 20% Total Solids = .20

Alternative equations may be utilized if approved in writing by NJDEP.

946430099

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

0 8

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge**PARAMETERS****STORET
CODE****TOTAL PHASE
(dry weight basis,****NONE
DETECTED****Metals**

Arsenic	01002					2	2	2
Beryllium	01012					0	1	6
Cadmium	61527					1	0	9 0
Chromium	61512				1	4	6	9 5
Copper	61506				4	8	7	5 5
Iron	01045			3	1	9	0	
Lead	61503				2	4	6	0
Mercury	01260					1	1	2
Molybdenum	01062					4	5	0
Nickel	61515					4	2	1 0
Selenium	61518					2	7	6
Zinc	61509				7	1	3	0

*

Selected Chemical Parameters

Total Nitrogen	00625		1	5	4	8	7	
Ammonia	71845				4	0	9	
Nitrate Nitrogen	71850					9	9	
Oil and Grease	00550		1	4	0	8	4	
Phenols	46000					9	8	6
Phosphorus	00665			6	2	3	0	
Calcium	00916	2	7	8	5	0	0	
Magnesium	00927			2	6	4	2	
Potassium	00937				9	1	5	
Cyanide	00720					5	6	
Fluoride	00951				1	2	8	
Chloride	00940			3	4	7	0	

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Name of Authorized Agent (Print)

Chief Chemist

Title

Signature

Oct 13, 1993
DateLaboratory Name: Passaic Valley Sewerage CommissionersCert No. 07407

946430100

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

0 9

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETERS	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
<u>Pesticides and PCB's</u>			
Aldrin	39330	0 0 2 9	*
Chlordane	39350	0 4 1 4	*
Dieldrin	39380	0 0 3 3	*
DDT	39370	0 1 7 4	*
Heptachlor	39410	0 0 1 2	*
Lindane	39782	0 0 3 7	*
PCB's	39516	2 0 7	*
Toxaphene	39400	4 1 4	*
<u>Purgeables</u>			
Benzene	34030	2 8 5	*
Carbon tetrachloride	32102	2 8 5	*
Chloroform	32106	2 8 5	*
Methylene Chloride	34423	2 8 5	*
Tetrachloroethylene	34475	2 8 5	*
Trichloroethylene	39180	2 8 5	*
Vinyl chloride	39175	5 6 9	*
<u>Base/Neutrals and Acids</u>			
Benzidine	39120	4 5 5	*
Benzo(a)pyrene	34247	4 5 5	*
Bis(2-ethylhexyl) phthalate	39100	6 8 7	*
Hexachlorobenzene	39700	4 5 5	*
Hexachlorobutadiene	39702	4 5 5	*
N-nitrosodimethylamine	34438	9 1 0	*

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Chief Chemist,

Name of Authorized Agent (Print)

Title



Signature

Oct 13, 1993

Date

Laboratory Name: Priority One Testing LaboratoryCert No. 09399

946430101

MONITORING REPORT - TRANSMITTAL SHEET

Page 1 of 1

NJDOES NO.

REPORTING PERIOD

MO. YR.

MO. YR.

0102110116

110913 THRU 110913

PERMITTEE:Name Passaic Valley Sewerage CommissionersAddress 600 Wilson AvenueNewark, New Jersey 07105FACILITY:Name Passaic Valley Sewerage CommissionersAddress 600 Wilson AvenueNewark, N.J. 07105 (County) EssexTelephone (201) 344-1800* For reporting period 10/93
** For reporting period 9/93FORMS ATTACHED (Indicate Quantity of Each)

SLUDGE REPORTS - SANITARY

☐ 1

T-VWX-007

☐ 1

T-VWX-008

☐ 1

T-VWX-009

*

**

*

SLUDGE REPORTS - INDUSTRIAL

☐

T-VWX-010A

☐

T-VWX-010B

WASTEWATER REPORTS

☐

T-VWX-011

☐

T-VWX-012

☐

T-VWX-013

GROUNDWATER REPORTS

☐

VWX-015(A,B)

☐

VWX-016

☐

VWX-017

NPDES DISCHARGE MONITORING REPORT

☐

EPA FORM 3320-1

OPERATING EXCEPTIONS

YES NO

DYE TESTING

☐☐

TEMPORARY BYPASSING

☐☐

DISINFECTION INTERRUPTION

☐☐

MONITORING MALFUNCTIONS

☐☐

UNITS OUT OF OPERATION

☐☐

OTHER

☐☐(Detail any "Yes" on reverse side
in appropriate space.)NOTE: The "Hours Attended at Plant" on the
reverse of this sheet must also be completed.

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR

Name (Printed) Phil HabrukowichGrade & Registry No. NJ S-4 #3972Signature [Signature]Date 11/24/93PRINCIPAL EXECUTIVE OFFICER or
DULY AUTHORIZED REPRESENTATIVEName (Printed) Carmine T. PerrapatoTitle (Printed) Executive DirectorSignature [Signature]Date 11/24/93

946430102

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

DANIEL F. BECHT
ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which originated from our Zimpro process.

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

1 0

1 9 9 3

5

1

Page 1 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	2 2 9 0

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	5 7 8
2. Average Daily Sludge Production	(Gallons/Day)	B2:	2 8 8 0 4
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	6 9 4 1

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed			
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day)	C2:	
2. Complete ONLY If Dewatered Sludge Is Removed			
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	5 7 8
b. Complete ONE of the following:			
i. Average Daily Sludge Removal	(Gallons/Day)	C4:	
Total Solids of 2.b.i.	(% by weight)	C5:	
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	1 2 0 0
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	6 9 4 1
4. pH of Sludge Removed	(Standard Units)	C9:	5 4

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
E	PASSAIC VALLEY	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)

Chief Chemist
Title

Arthur A. Martinelli
Signature

11/16/93
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430104

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion; or

B. Aerobic Digestion; complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

UNIT 1	UNIT 2	UNIT 3
<input type="text"/> . <input type="text"/>	<input type="text"/> . <input type="text"/>	<input type="text"/> . <input type="text"/>

b. After Stabilization (as weight % of TS)

<input type="text"/> . <input type="text"/>	<input type="text"/> . <input type="text"/>	<input type="text"/> . <input type="text"/>
---	---	---

c. Percent Reduction (see equation)

<input type="text"/> . <input type="text"/>	<input type="text"/> . <input type="text"/>	<input type="text"/> . <input type="text"/>
---	---	---

2. Detention Time (Days)

<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------

3. Average Temperature (Degrees C)

<input type="text"/> . <input type="text"/>	<input type="text"/> . <input type="text"/>	<input type="text"/> . <input type="text"/>
---	---	---

C. Air Drying (Report on any beds emptied for the report period)

BED	DATE SLUDGE LOADED			DEPTH POURED Inches	DATE SLUDGE REMOVED		
	Month	Day	Year		Month	Day	Year
1.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
5.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

$$A. \text{ Dry Tons} = \frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$$

$$B. \text{ Dry Tons} = \frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$$

$$y = 1.185 \text{ where solid content is less than 15\%}$$

$$= 1.265 \text{ where solid content is 16\% to 23\%}$$

$$= 1.58 \text{ where solid content is 24\% to 29\%}$$

$$= 1.9 \text{ where solid content is greater than 30\%}$$

$$C. \text{ Dry Tons} = \text{Tons (wet)} \times \text{Solid Content (of the wet tons)}$$

$$D. \text{ Volatile Solids Reduction} = \frac{\text{VS before} \times \text{VS after}}{\text{VS before} - (\text{VS before} \times \text{VS after})} \times 100$$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

$$1\% \text{ Total Solids} = .01$$

$$20\% \text{ Total Solids} = .20$$

Alternative equations may be utilized if approved in writing by NJDEP.

946430105

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD
Mo. Yr.

REPORTING
CATEGORY

0 0 2 1 0 1 6

0 9 1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge

PARAMETERS

STORET
CODE

TOTAL PHASE
(dry weight basis,

NONE
DETECTED

Metals

Arsenic	01002	1 3 6	
Beryllium	01012	0 2 5	
Cadmium	61527	3 1 3 5	
Chromium	61512	6 1 9 7 0	
Copper	61506	2 2 9 6 2 5	
Iron	01045	1 2 9 6 0	
Lead	61503	5 2 4 5	
Mercury	01260	2 7 4	
Molybdenum	01062	1 8 7 0	
Nickel	61515	9 6 8 0	
Selenium	61518	4 6 9	*
Zinc	61509	3 3 4 4	

Selected Chemical Parameters

Total Nitrogen	00625	9 5 8 2	
Ammonia	71845	3 4 6	
Nitrate Nitrogen	71850	7 5	
Oil and Grease	00550	1 7 3 7 4 2	
Phenols	46000	3 8 3 6	
Phosphorus	00665	2 4 8 0 0	
Calcium	00916	1 7 1 2 5	
Magnesium	00927	4 4 1 4	
Potassium	00937	7 9 2	
Cyanide	00720	4 6 2	
Fluoride	00951	1 0 4	
Chloride	00940	3 0 6	

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)

Chief Chemist
Title

Signature

Nov 15, 1993
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07407

946430106

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

1 0 1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETERS

STORET
CODETOTAL PHASE
(dry weight basis,NONE
DETECTEDPesticides and PCB's

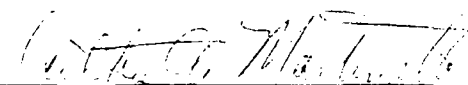
Aldrin	39330	0 1 0 9	*
Chlordane	39350	1 5 5	*
Dieldrin	39380	0 1 2 4	*
DDT	39370	0 6 5 1	*
Heptachlor	39410	0 0 4 7	*
Lindane	39782	0 1 4 0	*
PCB's	39516	7 7 5	*
Toxaphene	39400	1 5 5	*

Purgeables

Benzene	34030	2 1 3	*
Carbon tetrachloride	32102	2 1 3	*
Chloroform	32106	2 1 3	*
Methylene Chloride	34423	2 1 3	*
Tetrachloroethylene	34475	2 1 3	*
Trichloroethylene	39180	2 1 3 *	*
Vinyl chloride	39175	4 2 6	*

Base/Neutrals and Acids

Benzidine	39120	4 2 7	*
Benzo(a)pyrene	34247	8 5 3	*
Bis(2-ethylhexyl) phthalate	39100	1 5 1	*
Hexachlorobenzene	39700	8 5 3	*
Hexachlorobutadiene	39702	8 5 3	*
N-nitrosodimethylamine	34438	1 7 1	*

CERTIFICATE OF AUTHENTICITYArthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist,
Title
SignatureNov 15, 1993
DateLaboratory Name: Priority One Testing LaboratoryCert No. 09399

946430107

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

DANIEL F. BECHT
ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which has been
centrifuged and lime stabilized.

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

1 0

1 9 9 3

5

1

Page 2 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	2 2 9 0

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	4 5 6
2. Average Daily Sludge Production	(Gallons/Day)	B2:	5 7 6 9 7
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	1 0 9 7 3

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed			
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day)	C2:	
2. Complete ONLY If Dewatered Sludge Is Removed			
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	4 5 6
b. Complete ONE of the following:			
i. Average Daily Sludge Removal	(Gallons/Day)	C4:	
Total Solids of 2.b.i.	(% by weight)	C5:	
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	2 4 0 4
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	1 0 9 7 3
4. pH of Sludge Removed	(Standard Units)	C9:	1 1 2

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
D	PASSAIC VALLEY	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)

Chief Chemist
Title

Arthur A. Martinelli
Signature

11/16/93
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430109

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion; or

B. Aerobic Digestion; complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

b. After Stabilization (as weight % of TS)

c. Percent Reduction (see equation)

2. Detention Time (Days)

3. Average Temperature (Degrees C)

UNIT 1

UNIT 2

UNIT 3

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C. Air Drying (Report on any beds emptied for the report period)

BED

DATE SLUDGE LOADED

DEPTH POURED

DATE SLUDGE REMOVED

Month Day Year

Inches

Month Day Year

1.

| | | | | |

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2.

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3.

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4.

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5.

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| | | | | |

D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

$$A. \text{ Dry Tons} = \frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$$

$$B. \text{ Dry Tons} = \frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$$

$$y = 1.185 \text{ where solid content is less than 15\%}$$

$$= 1.265 \text{ where solid content is 16\% to 23\%}$$

$$= 1.58 \text{ where solid content is 24\% to 29\%}$$

$$= 1.9 \text{ where solid content is greater than 30\%}$$

$$C. \text{ Dry Tons} = \text{Tons (wet)} \times \text{Solid Content (of the wet tons)}$$

$$D. \text{ Volatile Solids Reduction} = \frac{\text{VS before} \times \text{VS after}}{\text{VS before} - (\text{VS before} \times \text{VS after})} \times 100$$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

$$1\% \text{ Total Solids} = .01$$

$$20\% \text{ Total Solids} = .20$$

Alternative equations may be utilized if approved in writing by NJDEP.

946430110

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD
Mo. Yr.REPORTING
CATEGORY

0 0 2 1 0 1 6

0 9

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge**PARAMETERS****STORET
CODE****TOTAL PHASE
(dry weight basis,****NONE
DETECTED****Metals**

Arsenic	01002					1	6	7	
Beryllium	01012					0	1	6	*
Cadmium	61527				1	4	3	0	
Chromium	61512			1	4	8	0	0	
Copper	61506			5	8	4	0	5	
Iron	01045		3	7	0	0			
Lead	61503			1	8	5	0		
Mercury	01260					0	7	0	
Molybdenum	01062				2	8	2	0	
Nickel	61515				4	5	8	5	
Selenium	61518					3	3	0	
Zinc	61509			9	3	5	5		

Selected Chemical Parameters

Total Nitrogen	00625		2	3	0	4	9		
Ammonia	71845				3	9	1		
Nitrate Nitrogen	71850				2	5	2		
Oil and Grease	00550		5	6	4	1	6		
Phenols	46000				1	0	0	7	
Phosphorus	00665			5	5	1	0		
Calcium	00916	1	7	6	8	1	2		
Magnesium	00927			2	8	0	4		
Potassium	00937			1	0	8	4		
Cyanide	00720				1	1	2	8	
Fluoride	00951				3	2	5		
Chloride	00940			4	5	8	0		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Name of Authorized Agent (Print)

Chief Chemist

Title


SignatureNov 15, 1993
DateLaboratory Name: Passaic Valley Sewerage CommissionersCert No. 07407

946430111

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

1 0

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETERS

STORET
CODETOTAL PHASE
(dry weight basis,NONE
DETECTEDPesticides and PCB's

Aldrin

39330

0 0 0 9

*

Chlordane

39350

0 1 3 4

*

Dieldrin

39380

0 0 1 1

*

DDT

39370

0 0 5 6

*

Heptachlor

39410

0 0 0 4

*

Lindane

39782

0 0 1 2

*

PCB's

39516

0 6 7 1

*

Toxaphene

39400

1 3 4

*

Purgeables

Benzene

34030

2 7 2

*

Carbon tetrachloride

32102

2 7 2

*

Chloroform

32106

2 7 2

*

Methylene Chloride

34423

2 7 2

*

Tetrachloroethylene

34475

2 7 2

*

Trichloroethylene

39180

2 7 2

*

Vinyl chloride

39175

5 4 4

*

Base/Neutrals and Acids

Benzidine

39120

6 7 5

*

Benzo(a)pyrene

34247

1 3 5

*

Bis(2-ethylhexyl) phthalate

39100

3 3 4

*

Hexachlorobenzene

39700

1 3 5

*

Hexachlorobutadiene

39702

1 3 5

*

N-nitrosodimethylamine

34438

2 7 0

*

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Chief Chemist,

Name of Authorized Agent (Print)

Title


SignatureNov. 15, 1993
DateLaboratory Name: Priority One Testing LaboratoryCert No. 09399

946430112

MONITORING REPORT - TRANSMITTAL SHEET

Page 1 of 1

NJDES NO.

REPORTING PERIOD

MO. YR.

MO. YR.

0021016

1193 THRU 1193

PERMITTEE:Name Passaic Valley Sewerage CommissionersAddress 600 Wilson AvenueNewark, New Jersey 07105FACILITY:Name Passaic Valley Sewerage CommissionersAddress 600 Wilson AvenueNewark, N.J. 07105 (County) EssexTelephone (201) 344-1800* For reporting period 11/93
** For reporting period 10/93FORMS ATTACHED (Indicate Quantity of Each)

SLUDGE REPORTS - SANITARY

☒ 1 T-VWX-007 ☒ 1 T-VWX-008 ☒ 1 T-VWX-009

*

**

*

SLUDGE REPORTS - INDUSTRIAL

☐ T-VWX-010A ☐ T-VWX-010B

WASTEWATER REPORTS

☐ T-VWX-011 ☐ T-VWX-012 ☐ T-VWX-013

GROUNDWATER REPORTS

☐ VWX-015(A,B) ☐ VWX-016 ☐ VWX-017

NJDES DISCHARGE MONITORING REPORT

☐ EPA FORM 3320-1OPERATING EXCEPTIONS

YES NO

DYE TESTING ☐ ☐TEMPORARY BYPASSING ☐ ☐DISINFECTION INTERRUPTION ☐ ☐MONITORING MALFUNCTIONS ☐ ☐UNITS OUT OF OPERATION ☐ ☐OTHER ☐ ☐(Detail any "Yes" on reverse side
in appropriate space.)**NOTE:** The "Hours Attended at Plant" on the
reverse of this sheet must also be completed.

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR

Name (Printed) Phil HabrukowichGrade & Registry No. NJ S-4 #3972Signature Date 12/23/93

946430113

PRINCIPAL EXECUTIVE OFFICER or
DULY AUTHORIZED REPRESENTATIVEName (Printed) Carmin T. PerrapatoTitle (Printed) Executive DirectorSignature Date 12/23/93

RONALD W. GACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

DANIEL F. BECHT
ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951
OPERATIONS DEPT. Fax: (201) 817-5709

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

946430114

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

1 1

1 9 9 3

5

1

Page 2 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	2 3 7 7

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	4 5 9
2. Average Daily Sludge Production	(Gallons/Day)	B2:	7 0 7 6 8
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	1 3 5 4 3

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed			
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day)	C2:	
2. Complete ONLY If Dewatered Sludge Is Removed			
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	4 5 9
b. Complete ONE of the following:			
i. Average Daily Sludge Removal	(Gallons/Day)	C4:	
Total Solids of 2.b.i.	(% by weight)	C5:	
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	2 9 4 9
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	1 3 5 4 3
4. pH of Sludge Removed	(Standard Units)	C9:	1 1 2

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
D	P A S S A I C V A L L E Y	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist
Title
Signature12/9/93
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430115

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion; or

B. Aerobic Digestion; complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

b. After Stabilization (as weight % of TS)

c. Percent Reduction (see equation)

2. Detention Time (Days)

3. Average Temperature (Degrees C)

UNIT 1

UNIT 2

UNIT 3

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C. Air Drying (Report on any beds emptied for the report period)

BED

DATE SLUDGE LOADED

DEPTH POURED

DATE SLUDGE REMOVED

Month Day Year

Inches

Month Day Year

1. | | | | | | | |

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2. | | | | | | | |

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3. | | | | | | | |

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4. | | | | | | | |

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5. | | | | | | | |

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D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

$$A. \text{ Dry Tons} = \frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$$

$$B. \text{ Dry Tons} = \frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$$

$$y = \begin{aligned} &= 1.185 \text{ where solid content is less than 15\%} \\ &= 1.265 \text{ where solid content is 16\% to 23\%} \\ &= 1.58 \text{ where solid content is 24\% to 29\%} \\ &= 1.9 \text{ where solid content is greater than 30\%} \end{aligned}$$

$$C. \text{ Dry Tons} = \text{Tons (wet)} \times \text{Solid Content (of the wet tons)}$$

$$D. \text{ Volatile Solids Reduction} = \frac{\text{VS before} \times \text{VS after}}{\text{VS before} - (\text{VS before} \times \text{VS after})} \times 100$$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

$$\begin{aligned} 1\% \text{ Total Solids} &= .01 \\ 20\% \text{ Total Solids} &= .20 \end{aligned}$$

Alternative equations may be utilized if approved in writing by NJDEP.

946430116

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

1 0

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge**PARAMETERS****STORET
CODE****TOTAL PHASE
(dry weight basis,****NONE
DETECTED****Metals**

Arsenic	01002	1 8 0	*
Beryllium	01012	0 3 6	*
Cadmium	61527	1 2 9 0	
Chromium	61512	1 1 6 8 0	
Copper	61506	4 5 6 6 5	
Iron	01045	3 1 7 0	
Lead	61503	1 6 3 5 0	
Mercury	01260	1 0 0	
Molybdenum	01062	2 9 1 0	
Nickel	61515	4 5 2 0	
Selenium	61518	3 6 4	*
Zinc	61509	6 5 8	

Selected Chemical Parameters

Total Nitrogen	00625	4 5 0 0 0	
Ammonia	71845	6 7 1	
Nitrate Nitrogen	71850	2 4 7	
Oil and Grease	00550	4 3 8 6 0	
Phenols	46000	2 8 2 9	
Phosphorus	00665	7 7 1 0	
Calcium	00916	2 1 3 4 3 8	
Magnesium	00927	2 9 2 0	
Potassium	00937	1 1 9 5	
Cyanide	00720	1 9 4 7	
Fluoride	00951	1 4 7	
Chloride	00940	1 0 7 2 0	

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Name of Authorized Agent (Print)

Chief Chemist

Title


Signature12/9/93
DateLaboratory Name: Passaic Valley Sewerage CommissionersCert No. 07407

946430117

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

1 1

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETERS

STORET
CODETOTAL PHASE
(dry weight basis,NONE
DETECTEDPesticides and PCB's

Aldrin	39330					0	0	0	7
Chlordane	39350					0	1	0	7
Dieldrin	39380					0	0	0	9
DDT	39370					0	0	4	5
Heptachlor	39410					0	0	0	3
Lindane	39782					0	0	1	0
PCB's	39516					0	5	3	5
Toxaphene	39400					1	0	7	

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*Purgeables

Benzene	34030					2	6	8	
Carbon tetrachloride	32102					2	6	8	
Chloroform	32106					2	6	8	
Methylene Chloride	34423					2	6	8	
Tetrachloroethylene	34475					2	6	8	
Trichloroethylene	39180					2	6	8	
Vinyl chloride	39175					5	3	5	

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*
*Base/Neutrals and Acids

Benzidine	39120					9	8	1	
Benzo(a)pyrene	34247					1	9	6	
Bis(2-ethylhexyl) phthalate	39100					8	1	8	
Hexachlorobenzene	39700					1	9	6	
Hexachlorobutadiene	39702					1	9	6	
N-nitrosodimethylamine	34438					3	9	2	

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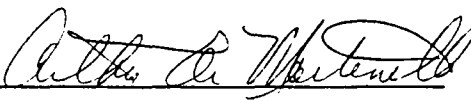
CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Name of Authorized Agent (Print)

Chief Chemist

Title


Signature12/10/93
DateLaboratory Name: Priority One Testing LaboratoryCert No. 09399

946430118

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

DANIEL F. BECHT
ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



**Passaic Valley
Sewerage Commissioners**

**600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800**

Fax: (201) 344-2951

OPERATIONS DEPT. Fax: (201) 817-5709

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which originated from our Zimpro process.

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

1 1

1 9 9 3

5

1

Page 1 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	2 3 7 7

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	5 6 2
2. Average Daily Sludge Production	(Gallons/Day)	B2:	2 8 5 1 6
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	6 6 7 2

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed			
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day)	C2:	
2. Complete ONLY If Dewatered Sludge Is Removed			
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	5 6 2
b. Complete ONE of the following:			
i. Average Daily Sludge Removal	(Gallons/Day)	C4:	
Total Solids of 2.b.i.	(% by weight)	C5:	
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	1 1 8 8
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	6 6 7 2
4. pH of Sludge Removed	(Standard Units)	C9:	5 9

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
E	PASSAIC VALLEY	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Name of Authorized Agent (Print)

Chief Chemist

Title


Signature

12/9/93

Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430120

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion; or

B. Aerobic Digestion; complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

UNIT 1

UNIT 2

UNIT 3

b. After Stabilization (as weight % of TS)

c. Percent Reduction (see equation)

2. Detention Time (Days)

3. Average Temperature (Degrees C)

C. Air Drying (Report on any beds emptied for the report period)

BED	DATE SLUDGE LOADED			DEPTH POURED Inches	DATE SLUDGE REMOVED		
	Month	Day	Year		Month	Day	Year
1.							
2.							
3.							
4.							
5.							

D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

A. Dry Tons = $\frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$

B. Dry Tons = $\frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$

y = 1.185 where solid content is less than 15%
 = 1.265 where solid content is 16% to 23%
 = 1.58 where solid content is 24% to 29%
 = 1.9 where solid content is greater than 30%

C. Dry Tons = Tons (wet) X Solid Content (of the wet tons)

D. Volatile Solids Reduction = $\frac{\text{VS before} - \text{VS after}}{\text{VS before} - (\text{VS before} \times \text{VS after})} \times 100$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

1% Total Solids = .01
 20% Total Solids = .20

Alternative equations may be utilized if approved in writing by NJDEP.

946430121

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

1 0

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge**PARAMETERS****STORET
CODE****TOTAL PHASE
(dry weight basis,****NONE
DETECTED****Metals**

Arsenic	01002					2	7	9
Beryllium	01012					0	8	4
Cadmium	61527					5	7	5
Chromium	61512					5	9	0
Copper	61506					2	0	4
Iron	01045					1	6	4
Lead	61503					4	5	1
Mercury	01260					3	5	2
Molybdenum	01062					2	4	1
Nickel	61515					8	9	0
Selenium	61518					8	3	0
Zinc	61509					2	7	2

*

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Selected Chemical Parameters

Total Nitrogen	00625					1	4	2
Ammonia	71845					7	3	7
Nitrate Nitrogen	71850					3	7	1
Oil and Grease	00550					1	8	8
Phenols	46000					5	2	2
Phosphorus	00665					2	0	0
Calcium	00916					1	9	0
Magnesium	00927					4	7	8
Potassium	00937					7	4	5
Cyanide	00720					1	0	8
Fluoride	00951					1	1	2
Chloride	00940					9	5	0

CERTIFICATE OF AUTHENTICITYArthur A. MartinelliChief Chemist

Name of Authorized Agent (Print)

Title


Signature12/9/93
DateLaboratory Name: Passaic Valley Sewerage CommissionersCert No. 07407**946430122**

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING

Mo.

Yr.

CATEGORY

0 0 2 1 0 1 6

1 1

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETERS

STORET
CODETOTAL PHASE
(dry weight basis,NONE
DETECTEDPesticides and PCB's

Aldrin	39330	0 5 4 5
Chlordane	39350	7 7 9
Dieldrin	39380	0 6 2 3
DDT	39370	3 2 7
Heptachlor	39410	0 2 3 4
Lindane	39782	0 7 0 1
PCB's	39516	3 8 9
Toxaphene	39400	7 7 9

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*Purgeables

Benzene	34030	2 1 9
Carbon tetrachloride	32102	2 1 9
Chloroform	32106	2 1 9
Methylene Chloride	34423	2 1 9
Tetrachloroethylene	34475	2 1 9
Trichloroethylene	39180	2 1 9
Vinyl chloride	39175	4 3 8

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*Base/Neutrals and Acids

Benzidine	39120	1 6 9
Benzo(a)pyrene	34247	3 3 8
Bis(2-ethylhexyl) phthalate	39100	2 3 9
Hexachlorobenzene	39700	3 3 8
Hexachlorobutadiene	39702	3 3 8
N-nitrosodimethylamine	34438	6 7 7

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CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Chief Chemist.

Name of Authorized Agent (Print)

Title


Signature
12/10/93
DateLaboratory Name: Priority One Testing LaboratoryCert No. 09399

946430123

MONITORING REPORT - TRANSMITTAL SHEET

Page 1 of 1

NJDES NO.

REPORTING PERIOD

MO. YR.

MO. YR.

00211016

1293 THRU 1293

PERMITTEE:Name Passaic Valley Sewerage CommissionersAddress 600 Wilson AvenueNewark, New Jersey 07105FACILITY:Name Passaic Valley Sewerage CommissionersAddress 600 Wilson AvenueNewark, N.J. 07105 (County) EssexTelephone (201) 344-1800

* For reporting period 12/93

FORMS ATTACHED (Indicate Quantity of Each)

SLUDGE REPORTS - SANITARY

☒ 1 T-VWX-007 ☐ T-VWX-008 ☒ 1 T-VWX-009

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*

SLUDGE REPORTS - INDUSTRIAL

☐ T-VWX-010A ☐ T-VWX-010B

WASTEWATER REPORTS

☐ T-VWX-011 ☐ T-VWX-012 ☐ T-VWX-013

GROUNDWATER REPORTS

☐ VWX-015(A,B) ☐ VWX-016 ☐ VWX-017

NPOES DISCHARGE MONITORING REPORT

☐ EPA FORM 3320-1OPERATING EXCEPTIONS

YES NO

DYE TESTING ☐ ☐TEMPORARY BYPASSING ☐ ☐DISINFECTION INTERRUPTION ☐ ☐MONITORING MALFUNCTIONS ☐ ☐UNITS OUT OF OPERATION ☐ ☐OTHER ☐ ☐(Detail any "Yes" on reverse side
in appropriate space.)**NOTE:** The "Hours Attended at Plants" on the
reverse of this sheet must also be completed.

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR

Name (Printed) Phil HabrukowichGrade & Registry No. NJ S-4 #3972Signature [Signature]Date 1/25/94PRINCIPAL EXECUTIVE OFFICER or
DULY AUTHORIZED REPRESENTATIVEName (Printed) Carmine T. PerrapatoTitle (Printed) Executive DirectorSignature [Signature]Date 1/26/94

946430124

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

DANIEL F. BECHT
ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which has been
centrifuged and lime stabilized.

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

Mo.

1 2

Yr.

1 9 9 3

5

1

Page 2 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow
2. Industrial Contribution
3. Average Daily Septage Treated

(MGD)

(% of influent)

(Gallons/Day)

A1:

A2:

A3:

3 3 0 0

1 8

1 6 1 3

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge
2. Average Daily Sludge Production
3. Average Daily Sludge Production

(% by weight)

(Gallons/Day)

(Dry Tons/Day)

B1:

B2:

B3:

4 2 4

6 2 1 1 9

1 0 9 6 9

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed

- a. Total Solids of Liquid Sludge

(% by weight)

- b. Average Daily Sludge Removal

(Gallons/Day)

2. Complete ONLY If Dewatered Sludge Is Removed

- a. Total Solids of Dewatered Sludge

(% by weight)

- b. Complete ONE of the following:

- i. Average Daily Sludge Removal

(Gallons/Day)

Total Solids of 2.b.i.

(% by weight)

- ii. Average Daily Sludge Removal

(Wet Cu. Yds/Day)

- iii. Average Daily Sludge Removal

(Wet Tons/Day)

3. Total Average Daily Sludge Removal

(Dry Tons/Day)

4. pH of Sludge Removed

(Standard Units)

C1:

C2:

C3:

C4:

C5:

C6:

C7:

C8:

C9:

4 2 4

2 5 3 8

1 0 9 6 9

1 1 1

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD
CODEHAULER
REGISTRY

FACILITY/OPERATION

PERMIT NO.

5

1 7 2 4 4

OUT OF STATE

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD
CODE

FACILITY/OPERATION

PERMIT NO.

FOR DEP USE ONLY

PSRP

PFRP

D

PASSAIC VALLEY

0 0 2 1 0 1 6

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Chief Chemist



1/12/94

Name of Authorized Agent (Print)

Title

Signature

Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430126

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion; or

B. Aerobic Digestion; complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

UNIT 1

UNIT 2

UNIT 3

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	.	
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	.	
--	---	--

b. After Stabilization (as weight % of TS)

	.	
--	---	--

	.	
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	.	
--	---	--

c. Percent Reduction (see equation)

	.	
--	---	--

	.	
--	---	--

	.	
--	---	--

2. Detention Time (Days)

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3. Average Temperature (Degrees C)

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	.	
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C. Air Drying (Report on any beds emptied for the report period)

BED

DATE SLUDGE LOADED

DEPTH POURED

DATE SLUDGE REMOVED

Month Day Year

Inches

Month Day Year

1.

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2.

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3.

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4.

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5.

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D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposai

5. Out of State

6. Residual Not Classified as Sludge. Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

A. Dry Tons = $\frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$

B. Dry Tons = $\frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$

y = 1.185 where solid content is less than 15%
 = 1.265 where solid content is 16% to 23%
 = 1.58 where solid content is 24% to 29%
 = 1.9 where solid content is greater than 30%

C. Dry Tons = Tons (wet) X Solid Content (of the wet tons)

D. Volatile Solids Reduction = $\frac{\text{VS before} \times \text{VS after}}{\text{VS before} - (\text{VS before} \times \text{VS after})} \times 100$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

1% Total Solids = .01
 20% Total Solids = .20

Alternative equations may be utilized if approved in writing by NJDEP.

946430127

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD
Mo. Yr.REPORTING
CATEGORY

0 0 2 1 0 1 6

1 2

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETERS

STORET
CODETOTAL PHASE
(dry weight basis,NONE
DETECTEDPesticides and PCB's

Aldrin	39330					0	0	0	7
Chlordane	39350					0	0	9	8
Dieldrin	39380					0	0	0	8
DDT	39370					0	0	4	1
Heptachlor	39410					0	0	0	3
Lindane	39782					0	0	0	9
PCB's	39516					0	4	8	8
Toxaphene	39400					0	9	7	6

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*Purgeables

Benzene	34030					2	9	0	
Carbon tetrachloride	32102					2	9	0	
Chloroform	32106					2	9	0	
Methylene Chloride	34423					2	9	0	
Tetrachloroethylene	34475					2	9	0	
Trichloroethylene	39180					2	9	0	
Vinyl chloride	39175					5	7	9	

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*
*Base/Neutrals and Acids

Benzidine	39120					6	7	6	
Benzo(a)pyrene	34247					5	8	8	
Bis(2-ethylhexyl) phthalate	39100					1	0	1	
Hexachlorobenzene	39700					5	8	8	
Hexachlorobutadiene	39702					5	8	8	
N-nitrosodimethylamine	34438					1	7	5	

*
*

*
*
*

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Name of Authorized Agent (Print)

Chief Chemist,

Title


Signature1/11/94
DateLaboratory Name: Priority One Testing LaboratoryCert No. 09399

946430128

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

DANIEL F. BECHT
ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
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Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

This domestic wastewater sludge report represents dewatered cake which originated
from our Zimpro process.

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

Mo.

1 2

Yr.

1 9 9 3

5

1

Page 1 of 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

A. REPORTING CATEGORY INFORMATION

1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Contribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	1 6 1 3

B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS

1. Average Total Solids of Sludge	(% by weight)	B1:	5 4 8
2. Average Daily Sludge Production	(Gallons/Day)	B2:	3 2 4 7 3
3. Average Daily Sludge Production	(Dry Tons/Day)	B3:	7 4 1 7

**C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Complete ONLY If Liquid Sludge Is Removed			
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day)	C2:	
2. Complete ONLY If Dewatered Sludge Is Removed			
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	5 4 8
b. Complete ONE of the following:			
i. Average Daily Sludge Removal	(Gallons/Day)	C4:	
Total Solids of 2.b.i.	(% by weight)	C5:	
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	1 3 5 3
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	7 4 1 7
4. pH of Sludge Removed	(Standard Units)	C9:	5 5

D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse)

METHOD CODE	HAULER REGISTRY	FACILITY/OPERATION	PERMIT NO.
5	1 7 2 4 4	OUT OF STATE	

E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse)

METHOD CODE	FACILITY/OPERATION	PERMIT NO.	FOR DEP USE ONLY	
			PSRP	PFRP
E	PASSAIC VALLEY	0 0 2 1 0 1 6		

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli
Name of Authorized Agent (Print)Chief Chemist
Title
Signature1/12/94
Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

946430130

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)

A. Anaerobic Digestion; or

B. Aerobic Digestion; complete the following:

1. Percent Volatile Solids:

a. Before Stabilization (as weight % of TS)

UNIT 1

UNIT 2

UNIT 3

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b. After Stabilization (as weight % of TS)

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c. Percent Reduction (see equation)

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2. Detention Time (Days)

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3. Average Temperature (Degrees C)

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C. Air Drying (Report on any beds emptied for the report period)

BED

DATE SLUDGE LOADED

DEPTH POURED

DATE SLUDGE REMOVED

Month Day Year

Inches

Month Day Year

1.

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2.

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3.

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4.

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5.

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D. State Approved Lime Stabilization

E. Thermal Treatment/Drying

F. Phragmites

G. Composting

H. Other (specify here: _____)

I. None

ULTIMATE SLUDGE MANAGEMENT METHOD CODE

1. Land Application at a NJPDES Permitted Site

2. State Approved Distribution Permit

3. Incineration

4. Ocean Disposal

5. Out of State

6. Residual Not Classified as Sludge. Managed by Hazardous or Waste Flow Regs.

7. Other (specify here: _____)

8. None Removed

EQUATIONS

A. Dry Tons = $\frac{\text{Gallons (wet)} \times \text{Solid Content (of the gallons)}}{240}$

B. Dry Tons = $\frac{\text{Cubic Yards (wet)} \times \text{Solid Content (of the cubic yards)}}{(Y)}$

y = 1.185 where solid content is less than 15%
 = 1.265 where solid content is 16% to 23%
 = 1.58 where solid content is 24% to 29%
 = 1.9 where solid content is greater than 30%

C. Dry Tons = Tons (wet) X Solid Content (of the wet tons)

D. Volatile Solids Reduction = $\frac{\text{VS before} - \text{VS after}}{\text{VS before} - (\text{VS before} \times \text{VS after})} \times 100$

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

1% Total Solids = .01
 20% Total Solids = .20

946430131

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING
CATEGORY

0 0 2 1 0 1 6

1 2

1 9 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage CommissionersSLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETERS

STORET
CODETOTAL PHASE
(dry weight basis,NONE
DETECTEDPesticides and PCB's

Aldrin	39330	0 4 2 4
Chlordane	39350	6 0 6
Dieldrin	39380	0 4 8 5
DDT	39370	2 5 5
Heptachlor	39410	0 1 8 2
Lindane	39782	0 5 4 5
PCB's	39516	3 0 3
Toxaphene	39400	6 0 6

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*Purgeables

Benzene	34030	2 2 0
Carbon tetrachloride	32102	2 2 0
Chloroform	32106	2 2 0
Methylene Chloride	34423	2 2 0
Tetrachloroethylene	34475	2 2 0
Trichloroethylene	39180	2 2 0
Vinyl chloride	39175	4 3 9

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*Base/Neutrals and Acids

Benzidine	39120	4 0 4
Benzo(a)pyrene	34247	3 5 1
Bis(2-ethylhexyl) phthalate	39100	1 1 5
Hexachlorobenzene	39700	3 5 1
Hexachlorobutadiene	39702	3 5 1
N-nitrosodimethylamine	34438	7 0 3

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CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Name of Authorized Agent (Print)

Chief Chemist.

Title


Signature

 1/11/94
Date
Laboratory Name: Priority One Testing LaboratoryCert No. 09399

946430132